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   1.4254.1 Available under license

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1.2 xorg 7.7+1ubuntu8.1

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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.6 perl-html-tagset 3.20-15.el7

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You may find it useful to alter the behavior of modules (like
C<HTML::Element> or C<HTML::TreeBuilder>) that use C<HTML::Tagset>’s
data tables by altering the data tables themselves. You are welcome
to try, but be careful; and be aware that different modules may or may
react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing>
HTML -- for example, C%%%%isHeadOrBodyElement% lists the tagnames
for all elements that can appear either in the head or in the body,
such as "script". That doesn't mean that I am saying your code that
produces HTML should feel free to put script elements in either place!
If you are producing programs that spit out HTML, you should be
I<intimately> familiar with the DTDs for HTML or XHTML (available at
C<http://www.w3.org/>), and you should slavishly obey them, not
the data tables in this document.

=head1 SEE ALSO

L<HTML::Element>, L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Most of the code/data in this module was adapted from code written by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

=head1 BUGS

Please report any bugs or feature requests to C<bug-html-tagset at rt.cpan.org>, or through the web interface at L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=HTML-Tagset>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.
INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

    perl Makefile.PL
    make
    make test
    make install

If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

    perl Makefile.PL LIB=~/.perl

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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1.12 python-setuptools 5.5.1-1
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

That's all there is to it!
*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

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

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

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

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

== begin of license ==

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

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2) The modified Vim must be distributed in one of the following five ways:
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   The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I).

text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of
   the modified Vim you distribute. This may be done in the form of a
   context diff. You can choose what license to use for new code you
   add. The changes and their license must not restrict others from
   making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned
   under c), you can distribute it without the source code for the
   changes if the following three conditions are met:
   - The license that applies to the changes permits you to distribute
     the changes to the Vim maintainer without fee or restriction, and
     permits the Vim maintainer to include the changes in the official
     version of Vim without fee or restriction.
   - You keep the changes for at least three years after last
     distributing the corresponding modified Vim. When the maintainer
     or someone who you distributed the modified Vim to asks you (in
     any way) for the changes within this period, you must make them
     available to him.
   - You clearly describe in the distribution how to contact you. This
     contact information must remain valid for at least three years
     after last distributing the corresponding modified Vim, or as long
     as possible.
   e) When the GNU General Public License (GPL) applies to the changes,
   you can distribute the modified Vim under the GNU GPL version 2 or
   any later version.

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

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

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

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

=== end of license ===
Note:

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

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

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

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

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

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

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

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

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.
Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

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

vim:tw=78:ts=8:et:ft=help:norl:
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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.17 libx11 1.6.2-3

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1.24 sysstat 10.2.0-1

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1.30 coreos-semver 0.2.0
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1.31 pycrypto 2.6.1-2.el6
1.31.1 Available under license:

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Previously, the copyright and/or licensing status of the Python
Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The
original intention of Andrew M. Kuchling and other contributors has
been to dedicate PyCrypto to the public domain, but that intention was
not necessarily made clear in the original disclaimer (see
LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own
licenses that differed from the PyCrypto license itself. For example,
the original RIPEMD.c module simply had a copyright statement and
warranty disclaimer, without clearly specifying any license terms.
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sources (e.g. the DES and DES3 modules were replaced with new ones
based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the
RIPEMD and Blowfish modules were re-implemented from their
respective algorithm specifications without reference to the old
implementations).

4. Removing some modules altogether without replacing them.
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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.32 libogg 1.1.4 2.1.el6

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1.33 libmtp 1.1.17

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Automated Testing Framework

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

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

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

Author: Julio Merino <jmmv84@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

--

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

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<!-- $Id$ -->

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

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

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

<xsl:variable name="isc.copyright.text">
    <xsl:text>
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</xsl:text>
</xsl:variable>
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  jar/org/apache/hadoop/mapreduce/v2/api/records/impl/pb/package-info.java
* /opt/cola/permits/1137306147_1614052319.11/0/hadoop-mapreduce-client-common-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/api/records/package-info.java
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* /opt/cola/permits/1137306147_1614052319.11/0/hadoop-mapreduce-client-common-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/security/client/package-info.java
* /opt/cola/permits/1137306147_1614052319.11/0/hadoop-mapreduce-client-common-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/jobhistory/package-info.java

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1.48 findutils 4.4.2-7

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# canonicalize-lgpl.m4 serial 4

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AC_DEFUN([gl_CANONICALIZE_LGPL],
    [
        dnl Do this replacement check manually because the file name is shorter
        dnl than the function name.
        AC_CHECK_DECLS_ONCE(canonicalize_file_name)
        AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
        if test $ac_cv_func_canonicalize_file_name = no; then
            AC_LIBOBJ(canonicalize-lgpl)
            AC_DEFINE([realpath], [rpl_realpath],
                [Define to a replacement function name for realpath().])
            gl_PREREQ_CANONICALIZE_LGPL
        fi
    ]
)

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
    [
        AC_CHECK_DECLS_ONCE(canonicalize_file_name)
        AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
        gl_PREREQ_CANONICALIZE_LGPL
    ]
)

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
    [
        AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
        AC_CHECK_FUNCS_ONCE(getcwd readlink)
    ]
)

1.49 libxmu 1.1.2-1
1.49.1 Available under license:


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

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

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

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

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"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

def get_update_list():
"""Return the list of files to update.
Assumes that the current working directory when called is the root
of the GDB source tree (NOT the gdb/ subdirectory!). The names of
the files are relative to that root directory.
"""
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
for root, dirs, files in os.walk(gdb_dir, topdown=True):

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for dirname in dirs:
    reldirname = "%s/%s" % (root, dirname)
    if (dirname in EXCLUDE_ALL_LIST
        or reldirname in EXCLUDE_LIST
        or reldirname in NOT_FSF_LIST
        or reldirname in BY_HAND):
        # Prune this directory from our search list.
        dirs.remove(dirname)
    for filename in files:
        relpath = "%s/%s" % (root, filename)
        if (filename in EXCLUDE_ALL_LIST
            or relpath in EXCLUDE_LIST
            or relpath in NOT_FSF_LIST
            or relpath in BY_HAND):
            # Ignore this file.
            pass
        else:
            result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.
    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
        stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]
    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorightm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
    complex cases later...

    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50
    
    fd = open(filename)
    
    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
print "Error: This script must be called from the gdb directory."
root_dir = os.path.dirname(os.getcwd())
os.chdir(root_dir)

update_list = get_update_list()
update_files(update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print '\033[31mREMINDER: The following files must be updated by hand.\033[0m'
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# filenames are relative to the root directory.
EXCLUDE_LIST = ( 'gdb/CONTRIBUTE', 'gdb/gnulib' )

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = ( 'COPYING', 'COPYING.LIB', 'CVS', 'configure', 'copying.c', 'fdl.texi', 'gpl.texi', 'aclocal.m4', )

# The list of files to update by hand.
BY_HAND = (}
# These files are sensitive to line numbering.
"gdb/testsuite/gdb.base/step-line.inp",
"gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armmenu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim Callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/decode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/id decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",}
if __name__ == '__main__':
    main()

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this license or the ordinary General Public License is the better
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you. You must make sure that they, too, receive or can get the source
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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the Library and of the other library facilities is otherwise
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based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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END OF TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

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@ifinfo
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@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
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To apply these terms, attach the following notices to the library. It is
safer to attach them to the start of each source file to most effectively
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``copyright'' line and a pointer to where the full notice is found.

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USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a `copyright disclaimer` for the library, if necessary. Here is a sample; alter the names:

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

That's all there is to it!

BEGIN{

FS="\";  
print "/* ==> Do not modify this file!! " \ 
".-* buffer-read-only: t .-* vi\"
":set ro;": 
print " It is created automatically by copying.awk.";
print " Modify copying.awk instead. "=" " \ ;
print " 
print "/include "defs.h\"" 
print "/include "command.h\"" 
print "/include "gdbcmd.h\"" 
print " 
print "static void show_copying_command (char *, int);" 
print " 
print "/include "warranty.h\"
print "static void show_warranty_command (char *, int);" 
print " 
print "/include "gdbcmd.h\"
print "static void "; 
print "show_copying_command (char *ignore, int from_tty);" 
print "{"; 
}
}
NR == 1;\*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
  printf " printf_filtered ("\n\n\n;"
}
else if ($0 !~ //\*15\. Disclaimer of Warranty\[ ]*$/)
{
  printf " printf_filtered ("\n; 
for (i = 1; i < NF; i++)
printf "%%s\\n", $i; 
printf "%%s\\n")\n\n", $NF; 
}
}
static void show_warranty_command (char *ignore, int from_tty) {

  printf_filtered ("%s
", $NF);

  printf "\%s\n", $s;

  printf "%s\n\n", $nf;

}

void _initialize_copying (void) {

  add_cmd ("copying", no_set_class, show_copying_command, 
    _("Conditions for redistributing copies of GDB."),
    &showlist);

  add_cmd ("warranty", no_set_class, show_warranty_command, 
    _("Various kinds of warranty you do not have."),
    &showlist);

  /* For old-timers, allow "info copying", etc. */
  add_info ("copying", show_copying_command, 
    _("Conditions for redistributing copies of GDB."));

  add_info ("warranty", show_warranty_command, 
    _("Various kinds of warranty you do not have."));

}

END

1.62 bzr-builddeb 2.8.7ubuntu1

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---------------------------------------------------------------------------
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Version 2, June 1991

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

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

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

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

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1.64 jansson 2.10 1.el7

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for
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interface definition files, plus the scripts used to control compilation
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Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda,
Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White.

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The original unzip source code has been extensively modified and
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rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
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* 
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* 
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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His primary concern is that it remain freely distributable, he said."

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

1.71 tornado 3.1.1-1ubuntu2
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

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

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 vi: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
"!-~-
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-->

"!-~ $Id$ -->

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

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

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

<xsl:variable name="isc.copyright.text">
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* https://github.com/eclipse-ee4j/jersey

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1.74 cpio 2.11+dfsg-1ubuntu1.2

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test/dagon_lu_osp.cloog:

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    // Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.
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REFERENCES          Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
FILE FORMAT WARS    Software *not* to get.
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Other documentation files in the distribution are:

User documentation:
usage.txt         Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1               Unix-style man pages for programs (same info as usage.txt).
wizard.txt        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt       How to use the JPEG library in your own programs.
example.txt       Sample code for calling the JPEG library.
structure.txt     Overview of the JPEG library's internal structure.
coderules.txt     Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
=======

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images. JPEG's strong suit is compressing
photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

The best short technical introduction to the JPEG compression algorithm is


(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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


The original JPEG standard is divided into two parts, Part 1 being the actual

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details, we follow the "JFIF" conventions, revision 1.02. JFIF version 1 has been adopted as ISO/IEC 10918-5 (05/2013) and Recommendation ITU-T T.871 (05/2011): Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from https://www.iso.org/standard/54989.html and http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF 1.02 specification is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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

ARCHIVE LOCATIONS

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files".


FILE FORMAT COMPATIBILITY
This software implements ITU T.81 | ISO/IEC 10918 with some extensions from ITU T.871 | ISO/IEC 10918-5 (JPEG File Interchange Format-- see REFERENCES). Informally, the term "JPEG image" or "JPEG file" most often refers to JFIF or a subset thereof, but there are other formats containing the name "JPEG" that are incompatible with the DCT-based JPEG standard or with JFIF (for instance, JPEG 2000 and JPEG XR). This software therefore does not support these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on a common, interoperable format standard for JPEG files.

JFIF is a minimal or "low end" representation. TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) can be used for "high end" applications that need to record a lot of additional data about an image.

1.95 perl 2.2003.0-144.el6
1.95.1 Available under license :

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

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

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

Open Source Used In Tetration 3.5.1 1191
If the test fails, update at least one of README and perl.c so that they match reality.

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
local $/ = ''; my $copyright_msg = <$readme>;

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

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

1.96 dmidecode 2.12 7.el6
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body {
    margin: auto;
    font-family: Verdana, sans-serif;
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1.100 python-secretstorage 2.0.0-1ubuntu1.1

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The of the start-stop-daemon

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1.104 node-delayed-stream 0.0.5-1

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/ipropx
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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1.108 open-ldap 2.4.44-22.el7

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

--------------------------------------------------------------------------
---
avid: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generatedBy: 'Module::Build version 0.3608'
license: gpl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
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Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program’s name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

That's all there is to it!

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The End

```perl
#!/perl
=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";
  # The copyright message is the first paragraph:
  local $/ = '';
  my $copyright_msg = <$readme>;
  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'';
  $year;
}

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

1.110 tar 1.27.1-1

1.110.1 Available under license:

This is the Debian GNU/Linux prepackaged version of GNU tar. GNU tar, heavily based on John Gilmore’s public domain version of tar, was originally written by Graham Todd. It is now maintained by Paul Eggert <eggert@twinsun.com>.
This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:


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

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

GNU tar is


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Version 3, 29 June 2007

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1.117 iptables 1.4.21-35.el7

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1.118 e2fsprogs 1.41.12-18.el6

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 /*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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Theodore Ts'o
23-June-2007
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1.119 jetty-security 9.3.24.v20180605

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1.121 python-netifaces 0.10.4 3.el7

1.122 python-py 1.4.32-1.el7
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1.123 dpkg 1.17.5ubuntu5.8
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1.133 perl-timedate 2.30-2.el7

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abstract: unknown
author:
  - 'Graham Barr <gbarr@pobox.com>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: TimeDate
no_index:
directory:
- t
- inc
requires: {}
resources:
  repository: http://github.com/gbarr/perl-TimeDate
  version: 2.30

Found in path(s):
* /opt/cola/permits/1005120692_1606843884.97/0/perl-TimeDate-2.30-2.el7-1.src.rpm-cosi-expand-archive-TYY0HZnh/TimeDate-2.30.tar.gz-cosi-expand-archive-1QqPpzBu/TimeDate-2.30/META.yml
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License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1005120692_1606843884.97/0/perl-TimeDate-2.30-2.el7-1.src.rpm-cosi-expand-archive-TYY0HZnh/perl-TimeDate.spec
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This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

  perl Makefile.PL
  make
  make test
  make install

Please report any bugs/suggestions to <gbarr@pobox.com>

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=encoding utf8
=head1 NAME
Date::Language::Bulgarian - localization for Date::Format
=head1 DESCRIPTION
This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addresed in the future.
=head1 SYNOPSIS
use strict;
use warnings;
use Date::Language;
local $\=$/;
my $template ='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,':utf8');
foreach my $l(keys %languages){
my $lang = Date::Language->new($l);
my $zone = $languages{$l};
print $/. "$l $zone";
print $lang->time2str($template, $time);
print $lang->time2str($template, $time, $zone);
print $lang->strftime($template, \@lt);
}
=head1 AUTHOR
Krasimir Berov (berov@cpan.org)
=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1005120692_1606843884.97/0/perl-TimeDate-2.30-2.el7-1.src.rpm-cosi-expand-archive- TYYOHZnh/TimeDate-2.30.tar.gz-cosi-expand-archive-1QqPpzBu/TimeDate-2.30/lib/Date/Language/Bulgarian.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);

@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);

print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);

print $lang->ctime(time);
print $lang->asctime(@lt);

print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

=head1 LICENCE

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=cut

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2.30/lib/Date/Language/Hungarian.pm
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* /opt/cola/permits/1005120692_1606843884.97/0/perl-TimeDate-2.30-2.el7-1.src.rpm-cosi-expand-archive-TYY0HZnh/TimeDate-2.30.tar.gz-cosi-expand-archive-1QqPpzBu/TimeDate-2.30/lib/Date/Parse.pm
* /opt/cola/permits/1005120692_1606843884.97/0/perl-TimeDate-2.30-2.el7-1.src.rpm-cosi-expand-archive-TYY0HZnh/TimeDate-2.30.tar.gz-cosi-expand-archive-1QqPpzBu/TimeDate-2.30/lib/Date/Format.pm

1.134 scala 2.12.1
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```
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**1.137 go-playground-universal-translator**

**0.17.0**

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1.138 json-glib 1.4.2 2.el7

1.139 nvml 1.5.1 2.1.el7

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1.140 boost 1.53.0 27.el7

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All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that \c\texttt{true_type}\ inherits from \c\texttt{boost::mpl::true_}, \c\texttt{false_type}\ inherits from \c\texttt{boost::mpl::false_}, and \c\texttt{integral_constant< T, v >}\ inherits from \c\texttt{boost::mpl::integral_c< T, v >}\ (provided \c\texttt{T}\ is not \c\texttt{bool}).
Boost.Geometry (aka GGL, Generic Geometry Library)

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Maybe this should pass?

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
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Martin Tauchmann (martintauichmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>
namespace boost {

namespace interprocess {

--- end ---

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namespace ipcdetail {

    template <class T, T val>
    struct integral_constant
    {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_>
    {
        static const bool value = C_;}
    
    typedef bool_<true> true_;
    typedef bool_<false> false_;

    typedef true_ true_type;
    typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

    template <bool B, class T = void>
    struct enable_if_c {
        typedef T type;
    };

    template <class T>
    struct enable_if_c<false, T> {};

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {};

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {};

    template <class T, class U>
    class is_convertible
    {
        typedef char true_t;
        class false_t { char dummy[2]; }; 
        static true_t dispatch(U);
        static false_t dispatch(...);
    };
}
static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

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

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

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
   // : public std::unary_function<T,T>
   {
      typedef T type;
      const T& operator()(const T& x) const
      { return x; }
   };

template<std::size_t S>
struct ls_zeros
   {
      static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
   };

template<>
struct ls_zeros<0>
   {
      static const std::size_t value = 0;
   };

template<>
struct ls_zeros<1>
   {
      static const std::size_t value = 0;
   }

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

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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===========================================================================

The default copyright note for C++ source files reads:

// Boost.Geometry (aka GGL, Generic Geometry Library)

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- adapted geometry types e.g. array, Boost.Polygon
- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections
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and comments are changed accordingly.
Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
 : mpl::identity<T>
 #if defined(__MWERKS__)
 , aux::print_base
+#endif
 +#endif
 |
 #if defined(__MWERKS__)
 , aux::print_base
-+#endif
+"#endif
 |
 #if defined(BOOST_MSVC)
 enum { n = sizeof(T) + -1 };  
 #elif defined(__MWERKS__)
 void f(int);
-+#else
- enum { 
- n =  
-"# if defined(__EDG_VERSION__) 
- aux::dependent_unsigned<T>::value > -1
-"# else
- sizeof(T) > -1
-"# endif

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
    bool C
struct if_c
{
    typedef T1 type;
};

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

template<
    typename T1,
    typename T2,
    typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;  }
template<typename T> struct unvoid { typedef T type; };

template <> struct unvoid<void> { struct type { }; };

template<> struct unvoid<const void> { struct type { }; };
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

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+/Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
+/\ 

This is Release 2.4 of Jam/MR, a make-like program.

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//
//

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two { one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true>  true_;
typedef bool_<false> false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T>{};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
typedef char true_t;
class false_t { char dummy[2]; }; 
static true_t dispatch(U);
static false_t dispatch(...);
static const T &trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);


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

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

template<
   typename C
 , typename T1
 , typename T2
>
struct if_
{
   typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
   bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{};


template<
    typename C,
    typename T1,
    typename T2
>
struct eval_if
    : if_<C, T1, T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

// additional definitions for specific function signatures
template <typename R>
struct is_unary_or_binary_function_impl<R (*)()> // example
{
    static const bool value = true;
};
template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{
    static const bool value = true;
};
#endif
#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())>
{ static const bool value = true; };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(())>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>;
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>;
{ static const bool value = true; };

#endif // _MANAGED

#define _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>;
{ static const bool value = true; };

#endif
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  }
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  }

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>  
{  static const bool value = true;  }
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#ifdef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  }
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  }

template<typename T>
struct is_unary_or_binary_function
static const bool value = is_unary_or_binary_function_impl<T>::value;

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

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template<typename T>
struct add_const
{  typedef const T type;  };

template<typename T>
struct remove_const
{  typedef T type;  };

template<typename T>
struct remove_const<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv
{  typedef T type;  };

template<typename T>
struct remove_cv<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{  
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{  
    typedef T type;
};

template<class Class>
class is_empty_class
{  
    template <typename T>
    struct empty_helper_t1 : public T
    {  
    empty_helper_t1();
    int i[256];
  };
}
struct empty_helper_t2
{ int i[256]; };

public:
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

} //namespace intrusive
} //namespace boost

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

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.
Purely as an implementation detail, this means that `__true_type` inherits from [boost::mpl::true_], `__false_type` inherits from [boost::mpl::false_], and `__integral_constant<T, v>` inherits from [boost::mpl::integral_c<T,v>] (provided `T` is not `bool`).

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#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};
std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">
" << p.file.string() << ""</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        ;
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
        "<html>\n"
        "<head>\n"
        "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</title>\n"
        "</head>\n"
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
   os << " for " << *(m_module_list.begin());
}

os << "</H1>
"<H2>Contents</h2>
"<pre>
[a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
   os << "<a href="#summary">Licence Summary</a>
os << "<a href="#details">Licence Details</a>
while(i != j)
{
   // title:
   os << <A href="#" make_link_target(licenses.first[i->first].license_name) << "">" licenses.first[i->first].license_name << "" </a>
   ++i;
}

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
   os << "Moving to the Boost Software License...
   " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
   " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
   " <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
   " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
   " <a href="#copyright">Copyright Holder Information</a>
}

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

// input Information:
   //
   os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
   os << "The following files were scanned for boost dependencies: <BR>
else
   os << "The following Boost modules were checked: <BR>

std::list<
::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}
os << "</p>\p> The Boost path was: <code>" << m_boost_path.string() << "</code></p>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*+BOOST_VERSION\[[:blank:]]+\([0-9]+\)"");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "</p>\p> The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "</a name="summary">\h2>Licence Summary</h2></a>\n";
while(i != j)
{
    // title:
    os <<
        "<H3>" << licenses.first[i->first].license_name << " </H3></a>\n";
    // license text:
    os << "</BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "</P>\p> This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href=""(see details)="/a">";
os << "</P>\p>\n";
    ++i;
}
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
        // title:
os <<
"<H3><A name="" << make_link_target(licenses.first[i->first].license_name)
<< "></a>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
        // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:<P>\n<BLOCKQUOTE><P>";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
        os << *x << "<BR>\n";
        ++x;
}
os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:<P>\n<BLOCKQUOTE><P>";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
        os << split_path(m_boost_path, *m) << "<br>\n";
        ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
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++license_index;
++i;
}
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
";
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
} 

os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
} 

os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>\n";
    "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:\n";
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin().
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
  os << "<P>[" << file_num << "] File: " << split_path(m_boost_path, i->first)
    << "<tt>" << i->second.first << "</tt>
    << split_path(m_boost_path, i->second.second) << "</tt><br>
  
  <table border="1">
  <tr>
    <td><pre>
      " << i->second.first << "</pre></td>
    <td><pre>
      " << i->second.second << "</pre></td>
  </tr>
</table>
";
++i;
++file_num;
}
//
// Output list of files that could be moved over to the Boost Software License

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";

os << "The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:"

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  
  ++i2;
}

os << "</p></BLOCKQUOTE>
"

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

os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"

os << "The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:"

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  
  ++i2;
}

os << "</p></BLOCKQUOTE>
"

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

os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"

os << "Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:";
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>");
//
// output a table of copyright information:
//
    os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1"\n";
    std::map<std::string, std::set<fs::path, path_less>>::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
    while(ad != ead)
    {
        os << "<tr><td>" << ad->first << "</td><td>
        std::set<fs::path, path_less>::const_iterator fi, efi;
        fi = ad->second.begin();
        efi = ad->second.end();
        while(fi != efi)
        {
            os << split_path(m_boost_path, *fi) << " ";
            ++fi;
        }
        os << "</td></tr><\n";
        ++ad;
    }
    os << "</table>\n";
}
//
// output file dependency information:
//
    os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
    std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = m_copy_paths.begin();
    efi = m_copy_paths.end();
    // if in summary mode, just figure out the "bad" files and print those only:
    std::set<fs::path, path_less> bad_paths;
    if(m_bsl_summary_mode)
    {
        bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
        bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
        bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
        bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        while(i != ie)
{ 
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
            {
                os << " ";
                if(fs::exists(m_boost_path / dep->second))
                    os << split_path(m_boost_path, dep->second);
                else if(fs::exists(dep->second))
                    os << split_path(fs::path(), dep->second);
                else
                    os << dep->second.string();
                if(seen_deps.find(dep->second) != seen_deps.end())
                    {
                        os << " <I>(Circular dependency!)</I>";
                        break; // circular dependency!!!
                    }
                seen_deps.insert(dep->second);
                last_dep = dep;
                dep = m_dependencies.find(dep->second);
                if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                    break;
            }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os)
    {
        std::string msg("Error writing to ");
        msg += m_dest_path.string();
        msg += ";
        std::runtime_error e(msg);
boost::throw_exception(e);
}

1.141 dmidecode 3.5
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1.142 lz4 1.8.0

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1.147 python-ipaddress 1.0.17-1.tet

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1.159 snappy-java 1.1.2.6

1.160 jackson-databind 2.9.6

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1.161 javax-inject 2.4.0-b34

1.162 stack 1.8.0
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1.164 mpfr 3.1.2-2

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  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.
1.168 chkconfig 1.7.2 1.el7

1.168.1 Available under license:

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1.170 logfmt 0.4.0
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   The MIT License (MIT)

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1.172 httpcore-nio 4.4.5
1.172.1 Available under license:

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<span class="icon-bar"></span>
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<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
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<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
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<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
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<li><a href="/foundation/members.html/">Members</a></li>
<li><a href="/foundation/how-it-works.html/">Process</a></li>
<li><a href="/foundation/sponsorship.html/">Sponsorship</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>

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1.181 d-bus 1.6.12-13.el7

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1.195 opensaml-xmlsec-api 3.3.0

1.196 hive-storage-api 2.2.1

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1.197 eclipse-update-configurator

3.3.300.v20140518-1928

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BIRT Runtime

What is it?

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.
BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console

In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
3. generate the report by run
   genReport xxx.rptdesign

   xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by \\xxx.rptdesign

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

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The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/cache/Striped64.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash
 * method in OpenJDK 7's java.util.HashMap class.
 */

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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
*/
jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/hash/Funnel.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularContiguousSet.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/hash/Crc32cHashFunction.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java
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  jar/jersey/repackaged/com/google/common/reflect/TypeVisitor.java
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  jar/jersey/repackaged/com/google/common/collect/MultimapBuilder.java
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jar/jersey/repackaged/com/google/common/collection/MapMaker.java
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  jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java
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  jar/jersey/repackaged/com/google/common/collect/HashBiMap.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/AbstractSequentialIterator.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/annotations/package-info.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ListeningExecutorService.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/WrappingExecutorService.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/base/VerifyException.java
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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import: ../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.212 pflag 1.0.3

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

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

1.218 jansi-native 1.7

1.219 iproute 3.16.0-2
1.219.1 Available under license :
This is the Debian GNU/Linux's prepackaged version of the Linux Traffic Control engine and related utils, "iproute2"

The source code was obtained from
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1.229 device-mapper-multipath 0.4.9 85.el7

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

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

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

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

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

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

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1.230 dmidecode 3.12.2-3.el7
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.231 python-decorator 4.0.11-1.tet

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1.233 eclipse 4.3.100.v20141007 2301

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1.239 node-inherits 2.0.0-1
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1.241 heimdal 1.6~git20131207+dbsg-1ubuntu1.2

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c
@version 3.0 (December 2000)

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

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

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kdc/announce.c

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DES core in libhcrypto
D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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  src/preproc/grn/hgraph.cpp
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  src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
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  src/devices/xditview/Dvi.c
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  src/devices/xditview/DviP.h
  src/devices/xditview/FontMap
  src/devices/xditview/GXditview.ad
  src/devices/xditview/Menu.h
  src/devices/xditview/ad2c
  src/devices/xditview/device.c
  src/devices/xditview/device.h
  src/devices/xditview/draw.c
  src/devices/xditview/font.c
  src/devices/xditview/gray1.bm
  src/devices/xditview/gray2.bm
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* /opt/ws_local/PERMITS_SQL/1070948403_1594801544.94/0/netty-transport-native-unix-common-4-1-25-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1070948403_1594801544.94/0/netty-transport-native-unix-common-4-1-25-final-sources-jar/io/netty/channel/unix/Limits.java
* /opt/ws_local/PERMITS_SQL/1070948403_1594801544.94/0/netty-transport-native-unix-common-4-1-25-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/ws_local/PERMITS_SQL/1070948403_1594801544.94/0/netty-transport-native-unix-common-4-1-25-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

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END OF TERMS AND CONDITIONS

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

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

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

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

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

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

That's all there is to it!

1.258 libalgorithm-diff-xs-perl 0.04-2build4
1.258.1 Available under license :

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

=head1 NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=head1 SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

=head1 DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known L<Algorithm::LCS> with a drop-in interface that simply re-uses the installed version of the L<Algorithm::Diff> module.
Note that only the C<LCSidx> function is optimized in XS at the moment, which means only C<compact_diff> will get significantly faster for large data sets, while C<diff> and C<sdiff> will run in identical speed as C<Algorithm::Diff>.

=head1 BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14.7/s</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>806/s</td>
<td>5402%</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:

```perl
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthes(500, {
  'Algorithm::Diff' => sub {
    Algorithm::Diff::compact_diff(@data)
  },
  'Algorithm::Diff::XS' => sub {
    Algorithm::Diff::XS::compact_diff(@data)
  },
});
```

=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

=head1 COPYRIGHT

Copyright 2008 by Audrey Tang E<lt>cpan@audreyt.orgE<gt>.

Contains derived code copyrighted 2003 by Joe Schaefer, E<lt>joe+cpan@sunstarsys.comE<gt>.

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=cut

No license file was found, but licenses were detected in source scan.
ppport.h -- Perl/Pollution/Portability Version 3.06_01


Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information
=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only up to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.
=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.
Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the `C<PL_>` prefix is deprecated. Also, some API functions used to have a `C<perl_>` prefix. Using this form is also deprecated. You can safely use the supported API, as `F<ppport.h>` will provide wrappers for older Perl versions.

If you use one of a few functions that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more `C<#define>`s in your source code before the inclusion of `F<ppport.h>`.

These functions will be marked `C<explicit>` in the list shown by `C<--list-provided>`.

Depending on whether you module has a single or multiple files that use such functions, you want either `C<static>` or global variants.

For a `C<static>` function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

Note that you mustn't have more than one global request for one function in your project.

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```
If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.

The complete output from running "perl -V"

=item 2.
This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2005, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

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

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

my %opt = (
    quiet   => 0,
    diag    => 1,
    hints   => 1,
    changes => 1,
    cplusplus => 0,
    filter  => 1,
);
my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t\]";             # horizontal whitespace

eval {
require Getopt::Long;
Getopt::Long::GetOptions($%opt, qw(
  help quiet diag! filter! hints! changes! cplusplus
  patch=s copy=s diff=s compat-version=s
  list-provided list-unsupported api-info=s
)) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}

usage() if $opt{help};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: '$opt{'compat-version'}'\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%.d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

# Never use C comments in this file!!!!!
my $ccs  = '/'.'*';
my $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^(\w+)|([^|]*)|([^|]*)|([^]*)$/
  ? ( $1 => {
    ($2                  ? ( base     => $2 ) : ()),
    ($3                  ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
  }): die "invalid spec: $_" } qw(
  .
  :
  )

Open Source Used In Tetration 3.5.1 2335
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bm
PERL_MAGIC_collxfrm
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PERL_MAGIC_sv
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = '';

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$hint = $1 if m{^\s*srcce\s+Hint:\s+\(\w+\)\s+\$\};

$replace = $1 if m{^\s*srcce\s+Replace:\s+\(\w+\)\s+\$\};
$replace[2] = $1 if $replace and m{^\s*#\s+\$\s+Define:\s+\(\w+\)\s+\$\};
$replace[2] = $1 if m{^\s*$rcce\s+\$\s+Replace:\s+\$\};
$replace[1] = $2 if m{^\s*$srcce\s+Replace \$1 with \$2\$\};

if (m{^\s*$rcce\s+\(\w+\)\s+\$\s+depends\s+\(\w+\)\s+\$\}) {
    push @$depends{$1}, map { s/\s+/\s/; $_ } split /,/$1;
}

$need{$1} = 1 if m{^\s*if\s+defined\(\$\_GLOBAL\)\$\};

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!/\s+\$/g; $1 : "$\Q$opt{'api-info'}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "$5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
            print "Depends on: \$join\$, \$\{@$depends{$f}\}\$", "$\" if exists $depends{$f};
            print "Hints\$info" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available:\n";
        }
        $count++;
    }
    if ($count > 0) {
        print "$\n";
    } else {
        print "Found no API matching '$opt{'api-info'}'\n";
    }
}
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}

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@files = @in;
}
unless (@files) {
die "No input files given!\n";
}
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# temporarily remove C comments from the code
my @ccom;
$c =~ s{
(
[^"'/]+
|
(?:"[^"\\]*(?:\\.[^"\\]*)*" [^"'/]*)+
|
(?:'[^'\\]*(?:\\.[^'\\]*)*' [^"'/]*)+
)
|
(/ (?:
\*[^*]*\*+(?:[^$ccs][^*]*\*+)* /
|
/[^\r\n]*
))
}{
defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce";
}egsx;
$file{ccom} = \@ccom;
$file{code} = $c;

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my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|\$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\bAb\(?:Perl\_)?($match)\b/) {
    $file{uses_replace}|{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}|{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}|{provided}) {
      if (!exists $API{$func}|{base} || $API{$func}|{base} > $opt|{'compat-version'}) {
        $file{uses}|{$func}++;
        my @deps = rec_depend($func);
        for (@deps) {
          $file{uses_deps}|{$func} = \@deps;
          $file{uses}|{$_} = 0 unless exists $file{uses}|{$_};
        }
      }
    }
  }
  if (exists $API{$func}|{todo} && $API{$func}|{todo} > $opt|{'compat-version'}) {
    if ($c =~ /\b$func\b/) {
      $file{uses_todo}|{$func}++;
    }
  }
}

while ($c =~ /\HS*$HS*define\HS+(NEED_(\w+?)\(_GLOBAL?)?\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}|{$2}++;
  } else {
    warning("Possibly wrong #define $1 in $filename");
  }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}|{$func}}, $filename;
  }
}
for $filename (@files) {
    exists $files{$filename} or next;

    info("--- Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};

    for $func (sort keys %{$file{uses_Perl}}) {
        if (SAPI{$func}{varargs}) {
            my $changes = ($c =~ s{\bPerl_$func\s*\((?!aTHX_?)(\(|\[\))\)*\}\(\s*\)$}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            } else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func\s*\((?!aTHX_?)(\(|\[\))\)*\}\(\s*\)$}{ $func$1 }g);
            }
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {

    }
}
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}\/g);
}

for $func (sort keys %{$file{uses}}) {  
  next unless $file{uses}[$func];  # if it's only a dependency
  if (exists $file{uses_deps}{$func}) {
    diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
  } 
  elsif (exists $replace{$func}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}\/g);
  } 
  else { 
    diag("Uses $func"); 
  } 
  hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {  
  warning("Uses $func, which may not be portable below perl ",
          format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {  
  my $message = "";
  if (not exists $file{uses}{$func}) {  
    $message = "No need to define NEED_$func if $func is never used";
  } 
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {  
    $message = "No need to define NEED_$func when already needed globally";
  } 
  if ($message) { 
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*#\$HS*define\$HS+NEED_$func\b.*$LF//mg);
  } 
}

for $func (sort keys %{$file{needed_global}}) {  
  my $message = "";
  if (not exists $global{uses}{$func}) {  
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  } 
  elsif (exists $file{needs}{$func}) { 
    if ($file{needs}{$func} eq 'extern') {  
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    } 
    elsif ($file{needs}{$func} eq 'static') {  

$message = "No need to define NEED_${func} GLOBAL when only used in this file";
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func} GLOBAL\b.*$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};
if ($file{needs_inc_ppport}) {
    my $pp = ";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs} {$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : ""
        unless (exists $file{"needed_$type"} {$func}) {
            if ($type eq 'global') {
                diag("Files @ {global{needs} {$func}} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_${func}$suffix\n"
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }
    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp := qq(#include "$ppport\n")
    }
    if ($pp) {
        $file{changes} += ($c =~ s/(\$/\$/HS*$\$/\$/define\$/\$/HS*NEED_\w+)$/\$/S$pp/m) || ($c =~ s/(^\$/\$/HS*$\$/\$/include.*$ppport\$/E)/\$/S$pp/m) || ($c =~ s/(^\$/\$/HS*$\$/\$/include.*XSUB.*\$/m)/\$/S$pp/m) || ($c =~ s/^/$pp/);}
    else {
    if ($file{has_inc_ppport}) {

diag("No need to include \"$ppport\")
$file{changes} += ($c =~ s/^\$HS*?#$HS*include.*$ppport.*?$LF//m);
}
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      } else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  } else if (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
      }
    } elseif (exists $opt{patch} || $opt{changes}) { 
      if (exists $opt{patch}) {
        unless ($patch_opened) {
          if (open PATCH, ">$opt{patch}" ) {
            $patch_opened = 1;
          }
        }
      }
else {
    error("Cannot open \\
$opt\{patch\} for writing: $!");
    delete $opt\{patch\};
    $opt\{changes\} = 1;
    goto fallback;
}
}
mydiff(\*PATCH, $filename, $c);
}
else {
    fallback:
    info("Suggested changes:");
    mydiff(\*STDOUT, $filename, $c);
}
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;

    if (exists $opt\{diff\}) {
        $diff = run_diff($opt\{diff\}, $file, $str);
    }

    if (!defined $diff and can_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, \{ STYLE => 'Unified' \});
        $diff = <<\HEADER . $diff
--- $file
+++ $file.patched
HEADER
    }
if (!$defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!$defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!$defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

}

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++; }
    $tmp = "$tmp.$suf";

    if (open F, ‘>"$tmp”) {
        print F $str;
        close F;

        if (open F, "$prog "$file "$tmp |") {
            while (<F>) {
                s/^<Q$tmp>E/$file.patched/;
                $diff .= ";
            }
            close F;
            unlink $tmp;
            return $diff;
        }

        unlink $tmp;
    } else {
        error("Cannot open "$tmp for writing: $!");
    }
}
return undef;
}

sub can_use
{
    eval "use @_;"
    return $@ eq ";"
}

sub rec_depend
{
    my $func = shift;
    my %seen;
    return () unless exists $depends{$func};
    grep !seen{$_}++, \map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.\d+\.\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\[\d_]+$/) {
        die "cannot parse version '$ver'\n";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+.(\d+).\d+/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'\n";
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    return ($r, $v, $s);
}

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\(d+\),(d\{3\}\)(d\{3\})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version \$ver\n";
    }
    $s /= 10;

    $ver = sprintf \"%d.%03d\", $r, $v;
    $s > 0 and $ver .= sprintf \"_%02d\", $s;

    return $ver;
}

return sprintf \"%d.%d.%d\", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, \"\n\";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, \"\n\";
}

sub warning
{
    $opt{quiet} and return;
    print \"*** \", @_, \"\n\";
}

sub error
{
    print \"*** ERROR: \", @_, \"\n\";
}

my %given_hints;
sub hint
{
$opt{quiet} and return;
$opt{hints} or return;
my $func = shift;
exists $hints{$func} or return;
$given_hints{$func}++ and return;
my $hint = $hints{$func};
$hint =~ s/^/   /mg;
print "   --- hint for $func ---\n", $hint;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\^s*perl\^s+$/^X$0/;
    $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
    print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
    exit 2;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1135382871_1613506298.04/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h
No license file was found, but licenses were detected in source scan.

'GNU public license'   => 'gpl',     1,
'GNU lesser public license'   => 'gpl',     1,
'BSD license'        => 'bsd',     1,
'proprietary'       => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) {
    warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it."
}

Found in path(s):
* /opt/cola/permits/1135382871_1613506298.04/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm
No license file was found, but licenses were detected in source scan.
NAME
Algorithm::Diff::XS - Algorithm::Diff with XS core loop

SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not
very well-known Algorithm::LCS with a drop-in interface that simply
re-uses the installed version of the Algorithm::Diff module.

Note that only the "LCSidx" function is optimized in XS at the moment,
which means only "compact_diff" will get significantly faster for large
data sets, while "diff" and "sdiff" will run in identical speed as
"Algorithm::Diff".

BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7/s</td>
<td>--</td>
<td>-98%</td>
</tr>
<tr>
<td>806/s</td>
<td>5402%</td>
<td>--</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthrewse( 500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    }
});

SEE ALSO
Algorithm::Diff, Algorithm::LCS.

AUTHORS
Audrey Tang <cpan@audreyt.org>

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Found in path(s):
* /opt/cola/permits/1135382871_1613506298.04/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/README

1.259 sqlite 3.20.0
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1.261 libdrm 2.4.91 3.el7

1.262 python-websocket-client 0.56.0-3.git3c25814.el7

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1.263 xerces-j 2.11.0

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package Lintian::coll::copyright_file;

use strict;
use warnings;
use autodie;

use lib "$ENV{'LINTIAN_ROOT'}/lib";
use Lintian::Util qw(fail gunzip_file is_ancestor_of touch_file);
use File::Copy qw(copy);

sub collect {
    my ($pkg, $type, $dir) = @_;

    if (-e "$dir/copyright") {
        unlink("$dir/copyright");
    }

    if (-d "$dir/unpacked/usr/share/doc/$pkg"
        && !is_ancestor_of("$dir/unpacked", "$dir/unpacked/usr/share/doc/$pkg")
    ) {
        }
# if the parent dir is outside the package, just stop here before we
# do something we will regret.
return;

my $file = "$dir/unpacked/usr/share/doc/$pkg/copyright";

# If copyright was a symlink, we need to make a copy of it. Just
# hardlinking to the symlink may leave a relative symlink into a
# directory we can't unpack. Be careful about what symlinks we
# allow, though.
if (-l $file) {
    my $link = readlink($file);
    unless ($link =~ /\./
        || ($link =~ m%/% & & $link !~ m%[^\%]+(\?:/)+[^\%]+\%z%)) {
        copy($file, "$dir/copyright") or fail "cannot copy $file: $!";
    }
} elsif (-f $file) {
    link($file, "$dir/copyright");
} elsif (-f "$file.gz") {
    gunzip_file("$file.gz", "$dir/copyright");
}

return;

collect(@ARGV) if $0 =~ m,(?:^|/)copyright-file$,;

1;

# Local Variables:
# indent-tabs-mode: nil
# cperl-indent-level: 4
# End:
# vim: syntax=perl sw=4 sts=4 sr et
This is part of the testsuite of lintian. See the file debian/copyright
in the lintian source directory for more details.

Insofar as this is copyrightable, it is:

Copyright 2010 Russ Allbery <rra@debian.org>

This text should not generate a spelling error for "ment":

computer software documentation," as such terms are used in
48 C.F.R. 12.212 (SEPT 1995) and is provided to the U.S. Govern-
ment only as a commercial end item. Consistent with 48 C.F.R.
12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (JUNE 1995),
But deafult is still a spelling error.
This copyright file is for libmythical-perl. The module is licenses under
the same terms as Perl itself but we've forgotten to add a reference to the
copy of the Perl license in common-licenses.

Copyright 2010 The Mythical Perl Module Team
Check-Script: copyright-file
Author: Christian Schwarz <schwarz@debian.org>
Abbrev: cpy
Type: binary
Needs-Info: copyright-file, index
Info: This script checks if a binary package conforms to policy
with regard to copyright files.

Each binary package must either have a
/usr/share/doc/<foo>/copyright file or must have a symlink
/usr/share/doc/<foo> -> <bar>, where <bar> comes
from the same source package and pkg foo declares a "Depends" relation on
bar.

Tag: no-copyright-file
Severity: serious
Certainty: certain
Info: Each binary package has to include a plain file
/usr/share/doc/<i>pkg</i>/copyright
Ref: policy 12.5
Tested: empty

Tag: copyright-refers-to-old-directory
Severity: serious
Certainty: certain
Info: The common licenses (GPL, BSD, Artistic, etc) have been moved from
/usr/doc/copyright to /usr/share/common-licenses.
Copyright files should be updated.
Ref: policy 12.5

Tag: copyright-file-compressed
Severity: serious
Certainty: certain
Info: The copyright file /usr/share/doc/<i>pkg</i>/copyright must not be
compressed.
Ref: policy 12.5

Tag: copyright-file-is-symlink
Severity: serious
Certainty: certain
Info: The copyright file /usr/share/doc/<i>pkg</i>/copyright must not be a
symbolic link.
Ref: policy 12.5

Tag: copyright-file-contains-full-gpl-license
Severity: important
Certainty: certain
Info: The copyright file /usr/share/doc/<i>pkg</i>/copyright contains the complete text of the GPL v1, v2, or v3. It should refer to the file <tt>/usr/share/common-licenses/GPL-1</tt>, <tt>GPL-2</tt>, or <tt>GPL-3</tt> instead.
Ref: policy 12.5

Tag: copyright-file-contains-full-gfdl-license
Severity: important
Certainty: certain
Info: The copyright file /usr/share/doc/<i>pkg</i>/copyright contains the complete text of the GFDL v1.2. It should refer to the file <tt>/usr/share/common-licenses/GFDL-1.2</tt> instead.
Ref: policy 12.5

Tag: copyright-file-contains-full-apache-2-license
Severity: important
Certainty: certain
Info: The copyright file /usr/share/doc/<i>pkg</i>/copyright contains the complete text of the Apache 2.0 license. It should refer to the file <tt>/usr/share/common-licenses/Apache-2.0</tt> instead.
Ref: policy 12.5

Tag: usr-share-doc-symlink-without-dependency
Severity: serious
Certainty: possible
Info: If the package installs a symbolic link <tt>/usr/share/doc/<i>pkg1</i> -&gt; <i>pkg2</i></tt>, then <i>pkg1</i> must depend on <i>pkg2</i> directory, with the same version as <i>pkg1</i>. Adding the dependency just to fix this bug is often not a good solution. Usually, it's better to include a real <tt>/usr/share/doc/<i>pkg1</i></tt> directory within <i>pkg1</i> and copy the copyright file into that directory.

Transitive dependencies are not allowed here. In other words, if the documentation directory is shipped in <i>pkg3</i> and <i>pkg1</i> depends on <i>pkg2</i>, which in turn depends on <i>pkg3</i>, that's still an error. Copyright file extractors are not required to go more than one level deep when resolving dependencies. Each package should have a direct dependency on the package which includes its documentation directory.
Ref: policy 12.5

Tag: usr-share-doc-symlink-to-foreign-package
Severity: serious
Certainty: certain
Info: If the package installs a symbolic link
\(<tt>/usr/share/doc/\langle i \rangle pkg1/\rangle \rightarrow \langle i \rangle pkg2/\rangle</tt>, then \(<i \rangle pkg1/\rangle\)
and \(<i \rangle pkg2/\rangle\) must both come from the same source package.

The best solution is probably to stop symlinking the
\(<tt>/usr/share/doc/</tt> directory for this package and instead include a
real \(<tt>/usr/share/doc/</tt>\langle i \rangle pkg1/\rangle\) directory within \(<i \rangle pkg1/\rangle\) with the
appropriate contents (such as the \(<tt>copyright</tt>\) and
\(<tt>changelog.Debian.gz</tt>\) files).
Ref: policy 12.5

Tag: cannot-check-whether-usr-share-doc-symlink-points-to-foreign-package
Severity: minor
Certainty: possible
Info: There is a symlink \(<tt>/usr/share/doc/</tt> \langle i \rangle pkg1/\rangle \rightarrow \langle i \rangle pkg2/\rangle
in your package. This means that \(<i \rangle pkg1/\rangle\) and \(<i \rangle pkg2/\rangle\) must
both come from the same source package. Lintian cannot check this right now
however.

Please reprocess this binary together with its source package to avoid
this tag.

Tag: old-fsf-address-in-copyright-file
Severity: normal
Certainty: certain
Info: The \(<tt>/usr/share/doc/</tt>\langle i \rangle pkg/\rangle/copyright file refers to the old postal
address of the Free Software Foundation (FSF). The new address is:

Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston,
MA 02110-1301, USA.

Tag: helper-templates-in-copyright
Severity: important
Certainty: certain
Info: The \(<tt>/usr/share/doc/</tt>\langle i \rangle pkg/\rangle/copyright file still contains
template markers from a packaging helper. Please fill in the actual
license, upstream copyright holders, and download information about the
package and remove any remaining templates generated by the packaging
helper.

Tag: copyright-refers-to-compressed-license
Severity: important
Certainty: certain
Info: The /usr/share/doc/<i>pkg</i>/copyright file refers to a standard license /usr/share/common-licenses/[GPL,LGPL,Artistic,BSD].gz as a compressed file. Please update the reference (the licenses are installed uncompressed).

Tag: usr-share-doc-symlink-points-outside-of-usr-share-doc
Severity: important
Certainty: certain
Info: The /usr/share/doc/<i>pkg</i> symbolic link is pointing to a directory outside of <tt>/usr/share/doc</tt>.
Ref: policy 12.5

Tag: copyright-does-not-refer-to-common-license-file
Severity: normal
Certainty: certain
Info: If your package uses any one of the licenses in <tt>/usr/share/common-licenses</tt>, the copyright file should refer to files therein.
Ref: policy 12.5

Tag: copyright-refers-to-incorrect-directory
Severity: serious
Certainty: certain
Ref: policy 12.5
Info: In the directory name /usr/share/common-licenses, licenses is spelled with an "s", not as licences with a "c".

Tag: copyright-file-lacks-pointer-to-perl-license
Severity: important
Certainty: possible
Ref: policy 12.5
Info: If your package is released under the same terms as Perl itself, it should refer to the Artistic and GPL license files in the <tt>/usr/share/common-licenses</tt> directory.

Tag: copyright-should-refer-to-common-license-file-for-apache-2
Severity: important
Certainty: possible
Ref: policy 12.5
Info: The strings "Apache License, Version" or "Apache-2" appear in the copyright file for this package, but the copyright file does not reference <tt>/usr/share/common-licenses</tt> as the location of the Apache-2 on Debian systems.

If the package uses some other license that just mentions the Apache-2 and that Lintian should detect as an exception, please file a Lintian bug.
If the copyright file must mention the Apache-2 for reasons other than stating the license of the package, please add a Lintian override.
Tag: copyright-should-refer-to-common-license-file-for-gpl
Severity: important
Certainty: possible
Ref: policy 12.5
Info: The strings "GNU General Public License" or "GPL" appear in the copyright file for this package, but the copyright file does not reference `<tt>/usr/share/common-licenses</tt>` as the location of the GPL on Debian systems.

If the package uses some other license that just mentions the GPL and that Lintian should detect as an exception, please file a Lintian bug.
If the copyright file must mention the GPL for reasons other than stating the license of the package, please add a Lintian override.

Tag: copyright-should-refer-to-common-license-file-for-gfdl
Severity: important
Certainty: possible
Ref: policy 12.5
Info: The strings "GNU Free Documentation License" or "GFDL" appear in the copyright file for this package, but the copyright file does not reference `<tt>/usr/share/common-licenses</tt>` as the location of the GFDL on Debian systems.

If the package uses some other license that just mentions the GFDL and that Lintian should detect as an exception, please file a Lintian bug.
If the copyright file must mention the GFDL for reasons other than stating the license of the package, please add a Lintian override.

Tag: copyright-should-refer-to-common-license-file-for-lgpl
Severity: important
Certainty: possible
Ref: policy 12.5
Info: The strings "GNU Lesser General Public License", "GNU Library General Public License", or "LGPL" appear in the copyright file for this package, but the copyright file does not reference `<tt>/usr/share/common-licenses</tt>` as the location of the LGPL on Debian systems.

If the package uses some other license that just mentions the LGPL and that Lintian should detect as an exception, please file a Lintian bug.
If the copyright file must mention the LGPL for reasons other than stating the license of the package, please add a Lintian override.

Tag: copyright-has-url-from-dh_make-boilerplate
Severity: normal
Certainty: certain
Ref: policy 12.5
Info: There is "url://example.com" in your copyright file. This was most likely a remnant from the dh_make template.

Make sure you include the real location where you obtained the upstream sources (if any).

Tag: debian-copyright-file-uses-obsolete-national-encoding
Severity: serious
Certainty: certain
Ref: policy 12.5
Info: The Debian copyright file must be valid UTF-8, an encoding of the Unicode character set.

There are many ways to convert a copyright file from an obsoleted encoding like ISO-8859-1; you may for example use "iconv" like:

```
$ iconv -f ISO-8859-1 -t UTF-8 copyright &gt; copyright.new
$ mv copyright.new copyright
```

Tag: copyright-contains-dh_make-todo-boilerplate
Severity: serious
Certainty: possible
Ref: policy 12.5
Info: The string "Please also look if..." appears in the copyright file, which indicates that you either didn't check the whole source to find additional copyright/license, or that you didn't remove that paragraph after having done so.

Tag: copyright-contains-dh-make-perl-boilerplate
Severity: normal
Certainty: certain
Ref: policy 12.5
Info: The string "This copyright info was automatically extracted" appears in the copyright file, which indicates that you either didn't check the whole source to find additional copyright/license, or that you didn't remove that paragraph after having done so.

Tag: copyright-with-old-dh-make-debian-copyright
Severity: pedantic
Certainty: certain
Info: The copyright file contains the incomplete Debian packaging copyright boilerplate from older versions of &lt;tt&gt;dh_make&lt;/tt&gt;.

&lt;tt&gt;(C)&lt;/tt&gt; alone is not considered a valid copyright notice in some countries. The word &lt;tt&gt;Copyright&lt;/tt&gt; or the symbol should be used instead or in addition to &lt;tt&gt;(C)&lt;/tt&gt;.

Copyright notices like this are, in any country that's a signatory to the Berne Convention, not required to claim copyright on a work, but their
presence may allow claiming additional damages should a copyright case go
to court. If you provide a notice, you may as well provide one that's
legally recognized in a broader range of countries.

Tag: copyright-refers-to-bad-php-license
Severity: serious
Certainty: possible
Info: This package appears to be covered by version 2.x of the PHP license,
which is not appropriate for anything other than the PHP interpreter
itself.

Note that PEAR modules are not a part of the PHP interpreter and cannot
use this license.
Ref: http://ftp-master.debian.org/REJECT-FAQ.html, #616436

Tag: copyright-refers-to-problematic-php-license
Severity: serious
Certainty: wild-guess
Info: This package appears to be covered by version 3.0 (exactly) of the
PHP license. This license is not applicable to anything that is not PHP
and has no contributions from the PHP Group.
Ref: http://ftp-master.debian.org/REJECT-FAQ.html

Tag: copyright-without-copyright-notice
Severity: normal
Certainty: certain
Ref: http://ftp-master.debian.org/REJECT-FAQ.html
Info: The copyright file for this package does not appear to contain a
copyright notice. You should copy the copyright notice from the upstream
source (or add one of your own for a native package). A copyright notice
must consist of Copyright, Copr., or the Unicode symbol of C in a circle
followed by the years and the copyright holder. A copyright notice is
not required for a work to be copyrighted, but Debian requires the
copyright file include the authors and years of copyright, and including
a valid copyright notice is the best way to do that. Examples:

Copyright YYYY Firstname Lastname &lt;address@example.com&gt;
Copr. YYYY-YYYY Firstname Lastname &lt;address@example.com&gt;
YYYY,YYYY Firstname Lastname &lt;address@example.com&gt;

If the package is in the public domain rather than copyrighted, be sure
to mention "public domain" in the copyright file. Please be aware that
this is very rare and not the same as a DFSG-free license. True public
domain software is generally limited to such special cases as a work
product of a United States government agency.

Tag: spelling-error-in-copyright
Severity: minor
Certainty: possible
Info: Lintian found a spelling error in the copyright file. Lintian has a list of common misspellings that it looks for. It does not have a dictionary like a spelling checker does. If this is a spelling error in the upstream license, in supporting email messages, or a case of Lintian being confused by non-English text, add an override.

Tag: possible-gpl-code-linked-with-openssl
Severity: serious
Certainty: wild-guess
Info: This package appears to be covered by the GNU GPL but depends on the OpenSSL libssl package and does not mention a license exemption or exception for OpenSSL in its copyright file. The GPL (including version 3) is incompatible with some terms of the OpenSSL license, and therefore Debian does not allow GPL-licensed code linked with OpenSSL libraries unless there is a license exception explicitly permitting this.

If only the Debian packaging, or some other part of the package not linked with OpenSSL, is covered by the GNU GPL, please add a lintian override for this tag. Lintian currently has no good way of distinguishing between that case and problematic packages.

Tag: copyright-refers-to-symlink-license
Severity: pedantic
Certainty: possible
Info: The copyright file refers to the versionless symlink in 
<tt>/usr/share/common-licenses</tt> for the full text of the GPL, LGPL, or GFDL license. This symlink is updated to point to the latest version of the license when a new one is released. The package appears to allow relicensing under later versions of its license, so this is legally consistent, but it implies that Debian will relicense the package under later versions of those licenses as they're released. It is normally better to point to the version of the license the package references in its license statement.

For example, if the package says something like "you may redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2, or (at your option) any later version", the <tt>debian/copyright</tt> file should refer to <tt>/usr/share/common-licenses/GPL-2</tt>, not <tt>/GPL</tt>.

For packages released under the same terms as Perl, Perl references the GPL version 1, so point to <tt>/usr/share/common-licenses/GPL-1</tt>.

Tag: copyright-refers-to-versionless-license-file
Severity: normal
Certainty: possible
Info: The copyright file refers to the versionless symlink in
<tt>/usr/share/common-licenses</tt> for the full text of the GPL, LGPL, or GFDL license, but the package does not appear to allow distribution under later versions of the license. This symlink will change with each release of a new version of the license and may therefore point to a different version than the package is released under.

<tt>debian/copyright</tt> should instead refer to the specific version of the license that the package references.

For example, if the package says something like "you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; version 2 dated June, 1991," the <tt>debian/copyright</tt> file should refer to <tt>/usr/share/common-licenses/GPL-2</tt>, not <tt>/GPL</tt>.

Tag: copyright-refers-to-nonexistent-license-file
Severity: normal
Certainty: certain
Info: The copyright file refers to a license in <tt>/usr/share/common-licenses</tt> that doesn't exist. Usually this is a typo, such as accidentally omitting the <tt>-</tt> between the license name and the version number.

Tag: copyright-refers-to-deprecated-bsd-license-file
Severity: minor
Certainty: certain
Ref: policy 12.5
Info: The copyright file refers to <tt>/usr/share/common-licenses/BSD</tt>. Due to the brevity of this license, the specificity of this copy to code whose copyright is held by the Regents of the University of California, and the frequency of minor wording changes in the license, its text should be included in the copyright file directly rather than referencing this file.

This file may be removed from a future version of base-files if references to it drop sufficiently.

Tag: copyright-has-crs
Severity: pedantic
Certainty: certain
Info: The copyright file has lines ending in CRLF instead of just LF.

Running the following command against the given file removes any <tt>CR</tt> character in the file:

<tt>sed -i 's///g' path/to/file</tt>

Upstream-Name: Doohickey
Upstream-Contact: J. Random Hacker <j.r.hacker@example.com>
Source: http://examples.com/doohickey/source/

Files: *
Copyright: 2011 J. Random Hacker <j.r.hacker@example.com>
License: GPL-2
This package is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free Software

This package is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with
this package; if not, write to the Free Software Foundation, Inc., 51 Franklin
St, Fifth Floor, Boston, MA 02110-1301, USA.

On Debian systems, the full text of the GNU General Public License version 2
can be found in the file `/usr/share/common-licenses/GPL-2'.
Upstream-Name: Doohickey
Upstream-Contact: J. Random Hacker <j.r.hacker@example.com>
Source: http://examples.com/doohickey/source/

Files: *
Copyright: 2011 J. Random Hacker <j.r.hacker@example.com>
License: GPL-2
This package is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free Software

This package is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with
this package; if not, write to the Free Software Foundation, Inc., 51 Franklin
St, Fifth Floor, Boston, MA 02110-1301, USA.

On Debian systems, the full text of the GNU General Public License version 2
can be found in the file `/usr/share/common-licenses/GPL-2'.

GNU AFFERO GENERAL PUBLIC LICENSE
Version 3, 19 November 2007

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Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.
You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

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Check-Script: source-copyright
Author: Jakub Wilk <jwilk@debian.org>
Abbrev: scpy
Type: source
Needs-Info: debfiles, index
Info: This script checks if a source package conforms to policy with regard to copyright files.

Each source package should have a debian/copyright file.

Tag: debian-copyright-is-symlink
Severity: normal
Certainty: certain
Info: The file `<tt>debian/copyright</tt>` is a symlink instead of a regular file. This makes package checking and manipulation more difficult.

This problem may have prevented lintian from performing other checks.

Tag: no-debian-copyright
Severity: minor
Certainty: certain
Ref: policy 12.5
Info: Every package must include the file `<tt>/usr/share/doc/<i>pkg</i>/copyright</tt>`.
A copy of this file should be in `<tt>debian/copyright</tt>` in the source package.

Tag: unknown-copyright-format-uri
Severity: pedantic
Certainty: wild-guess
Info: The copyright file appears to intended as machine-readable, but lintian cannot recognize its format URI. It could be a typo for a common URI or a syntax error in the first paragraph. Please file a bug against Lintian if you believe that the copyright file is syntactically valid and the URI is correct.

Tag: boilerplate-copyright-format-uri
Severity: normal
Certainty: possible
Info: Format URI of the machine-readable copyright file contains `<tt>VERSIONED_FORMAT_URL</tt>` or `<tt>REVISION</tt>` string. Please replace it with an actual URI or an actual revision number respectively.

Tag: wiki-copyright-format-uri
Severity: pedantic
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: Format URI of the machine-readable copyright file refers to Debian Wiki.

Debian Wiki is not used for the format development anymore. Please use
<tt>http://www.debian.org/doc/packaging-manuals/copyright-format/<i>version</i>/</tt>
as the format URI instead.

Tag: unversioned-copyright-format-uri
Severity: pedantic
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: Format URI of the machine-readable copyright file is not versioned.

Please use
<tt>http://www.debian.org/doc/packaging-manuals/copyright-format/<i>version</i>/</tt>
as the format URI instead.

Tag: out-of-date-copyright-format-uri
Severity: pedantic
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: A newer version of the machine-readable copyright file specification,
than the one referenced by the copyright file, is available.

This problem may have prevented lintian from performing other checks.

Tag: syntax-error-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The machine-readable copyright file didn’t pass Debian control file
syntax check.

This issue may hide other issues as Lintian skips some checks on the
file in this case.

Tag: obsolete-field-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The machine-readable copyright file uses a field, that used to be defined
by the specification, but has been renamed since then.

Please use Format instead of Format-Specification.

Please use Upstream-Contact instead of Contact, Maintainer or Upstream-Maintainer.

Please use Upstream-Name instead of Name.
Tag: comma-separated-files-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: A list of files in the machine-readable copyright format appears to be separated by commas. The file list should be whitespace separated instead.

Please note this tag is only emitted once per checked copyright file.

Tag: missing-field-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The paragraph in the machine readable copyright file is missing a field that is required by the specification.

Tag: missing-license-paragraph-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The files paragraph in the machine readable copyright file references a license, for which no standalone license paragraph exists.

Tag: missing-license-text-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The standalone license header contains only short license name, but not the license text.

Tag: unused-license-paragraph-in-dep5-copyright
Severity: minor
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The license paragraph in the machine-readable copyright file is not referenced by any files paragraph. It could be a typo in the license name or the license paragraph is simply not needed and can be removed.

Tag: unknown-paragraph-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The machine-readable copyright file contains a paragraph that is neither a standalone license paragraph nor a files paragraph.

Tag: field-name-typo-in-dep5-copyright
Severity: normal
Certainty: possible
Info: The listed field name is a likely misspelling of one of the documented DEP-5 fields.

Lintian will continue by using the "misspelled" variant, but other parsers are unlikely to do so.

Implementation detail: The typo is detected by using "Levenshtein edit distance". Therefore, if the typo involve several characters, Lintian may not detect it.

Tag: ambiguous-paragraph-in-dep5-copyright
Severity: normal
Certainty: possible
Ref: #652380, http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Info: The paragraph has a "License" and a "Copyright" field, but no "Files" field. Technically, this is a valid paragraph per the DEP-5 specification. However, it is mostly likely a mistake.

If it is a <tt>stand-alone license paragraph</tt>, the "Copyright" field is not needed and should be removed. On the other hand, if it is a <tt>files paragraph</tt>, it is missing the "Files" field.

Please note that while the "Files" field was optional in some cases in some of the earlier draft versions, it is mandatory in <i>all</i> <tt>files paragraphs</tt> in the current specification.

Lintian will attempt to guess what you intended and continue based on its guess. If the guess is wrong, you may see spurious tags related to this paragraph.
This package was debianized by Tobias Toedter <t.toedter@gmx.net> on Thu, 20 Mar 2008 23:48:15 +0100

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Format-Specification: http://wiki.debian.org/Proposals/CopyrightFormat?recall=184

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Lintian was designed and written by Christian Schwarz and Richard Braakman.
The package was previously maintained by Darren Benham,
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.275 parquet-column 1.8.3

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1.276 libdata-section-perl 0.200006-1

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1.284 e2fsprogs 1.42.9 9.el7

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSDLIB)

$(BSDLIB): $(OBJ)
(cd pic; Id -Bshareable -o $(BSDLIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSDLIB) .
$(RM) -f ../$(BSDLIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSDLIB) $(BSDLIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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Gadi Oxman, August 1995

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<signature of Ty Coon>, 1 April 1989
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1.285 chardet-whl 2.2.1-2~ubuntu1
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
/ * /opt/ws_local/PERMITS_SQL/1072608390_1595015982.13/0/netty-codec-http-4-1-27-final-sources-
jar/io/netty/handler/codec/http/HttpServerCodec.java
/ * /opt/ws_local/PERMITS_SQL/1072608390_1595015982.13/0/netty-codec-http-4-1-27-final-sources-
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jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java
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jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java
/ * /opt/ws_local/PERMITS_SQL/1072608390_1595015982.13/0/netty-codec-http-4-1-27-final-sources-
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1.294 apache-ds-kerberos-codec 2.0.0-M15

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1.298 compress-lzf 1.0.3
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Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

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1.299 libyaml 0.1.7

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1.300 slf4j 1.7.21

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1.301 jackson-dataformat-xml 2.4.5

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# Jackson JSON processor

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

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1.302 joda-convert 1.8.1

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

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

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with the Library, with the complete machine-readable "work that
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Library will not necessarily be able to recompile the application
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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.305 jackson 2.9.6
1.305.1 Available under license:

ISE uses the Oracle Database server under commercial license.

Cisco does not have a source code license thus it is impossible to upload any source code.
1.306 qemu 2.0.0+dfsg 2ubuntu1.44
1.306.1 Available under license:
/*
* System call numbers.
*
* created from FreeBSD: head/sys/kern/syscalls.master 182123 2008-08-24 21:20:35Z rwatson
*/

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
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 * @(#)mman.h 8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800  /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


/*.
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*
* @(#)mman.h 8.2 (Berkeley) 1/9/94
*
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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SUCH DAMAGE.

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

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

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
# Default configuration for i386-bsd-user
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/* System call numbers.

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

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_getseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 21
#define TARGET_NETBSD_NR_compat_40_mount 22
#define TARGET_NETBSD_NR_unmount 23
#define TARGET_NETBSD_NR_setuid 24
#define TARGET_NETBSD_NR_getuid 25
#define TARGET_NETBSD_NR_geteuid 26
#define TARGET_NETBSD_NR_ptrace 27
#define TARGET_NETBSD_NR_recvmsg 28
#define TARGET_NETBSD_NR_sendmsg 29
#define TARGET_NETBSD_NR_recvfrom 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockopt 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_getprof 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_gettid 47
#define TARGET_NETBSD_NR_getgid 48
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 49
#define TARGET_NETBSD_NR_ioctl 50
#define TARGET_NETBSD_NR_compat_12_oreboot 51
#define TARGET_NETBSD_NR_revoke 52
#define TARGET_NETBSD_NR_symlink 53
#define TARGET_NETBSD_NR_readlink 54
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 103
#define TARGET_NETBSD_NR_twain 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend3 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orcvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43オストレミット 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_ouquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 151
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 152
#define TARGET_NETBSD_NR_compat_20_statfs 153
#define TARGET_NETBSD_NR_compat_20_fstatfs 154
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 155
#define TARGET_NETBSD_NR_compat_09_osetdomainname 156
#define TARGET_NETBSD_NR_compat_09_ouname 157
#define TARGET_NETBSD_NR_sysarch 158
#define TARGET_NETBSD_NR_compat_10_osemsys 159
#define TARGET_NETBSD_NR_compat_10_omsgsys 160
#define TARGET_NETBSD_NR_compat_10_oshmsys 161
#define TARGET_NETBSD_NR_pread 162
#define TARGET_NETBSD_NR_pwrite 163
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_nntp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segclean 186
#define TARGET_NETBSD_NR_lfs_secgwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR_lseek 199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR___sysctl 201
#define TARGET_NETBSD_NR__sysct1 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semct1 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgct1 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmct1 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_gettime 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR___ksem_init 247
#define TARGET_NETBSD_NR___ksem_open 248
#define TARGET_NETBSD_NR___ksem_unlink 249
#define TARGET_NETBSD_NR___ksem_close 250
#define TARGET_NETBSD_NR___ksem_post 251
#define TARGET_NETBSD_NR___ksem_wait 252
#define TARGET_NETBSD_NR___ksem_trywait 253
#define TARGET_NETBSD_NR___ksem_getvalue 254
#define TARGET_NETBSD_NR___ksem_destroy 255
#define TARGET_NETBSD_NR__ksem_open 257
#define TARGET_NETBSD_NR__ksem_close 258
#define TARGET_NETBSD_NR__ksem_unlink 259
#define TARGET_NETBSD_NR__ksem_getattr 260
#define TARGET_NETBSD_NR__ksem_destroy 261
#define TARGET_NETBSD_NR__ksem_destroy 262
#define TARGET_NETBSD_NR__ksem_destroy 263
#define TARGET_NETBSD_NR__ksem_post 264
#define TARGET_NETBSD_NR__ksem_send 265
#define TARGET_NETBSD_NR__ksem_receive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___posix_chown 281
#define TARGET_NETBSD_NR___clone 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction 291
#define TARGET_NETBSD_NR___sigpending 292
#define TARGET_NETBSD_NR___sigprocmask 293
#define TARGET_NETBSD_NR___sigsuspend 294
#define TARGET_NETBSD_NR_compat_16___sigreturn 295
#define TARGET_NETBSD_NR___getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR___semct113 300
#define TARGET_NETBSD_NR___msgct113 301
#define TARGET_NETBSD_NR___shmct113 302
#define TARGET_NETBSD_NR___lwp_create 303
#define TARGET_NETBSD_NR___lwp_exit 304
#define TARGET_NETBSD_NR___lwp_self 305
#define TARGET_NETBSD_NR___lwp_wait 306
#define TARGET_NETBSD_NR___lwp_suspend 307
#define TARGET_NETBSD_NR___lwp_continue 308
#define TARGET_NETBSD_NR___lwp_wakeup 309
#define TARGET_NETBSD_NR___lwp_getprivate 310
#define TARGET_NETBSD_NR___lwp_setprivate 311
#define TARGET_NETBSD_NR___lwp_kill 312
#define TARGET_NETBSD_NR___lwp_detach 313
#define TARGET_NETBSD_NR___lwp_park 314
#define TARGET_NETBSD_NR___lwp_unpark 315
#define TARGET_NETBSD_NR___lwp_unpark_all 316
#define TARGET_NETBSD_NR___lwp_setname 317
#define TARGET_NETBSD_NR___lwp_getname 318
#define TARGET_NETBSD_NR___lwp_ctl 319
#define TARGET_NETBSD_NR___lwp_unregister 320
#define TARGET_NETBSD_NR___lwp_register 321
#define TARGET_NETBSD_NR___lwp_unregister_all 322
#define TARGET_NETBSD_NR___lwp_unregister_all 323
#define TARGET_NETBSD_NR___lwp_unregister_all 324
#define TARGET_NETBSD_NR___lwp_unregister_all 325
#define TARGET_NETBSD_NR___lwp_unregister_all 326
#define TARGET_NETBSD_NR___lwp_unregister_all 327
#define TARGET_NETBSD_NR___lwp_unregister_all 328
#define TARGET_NETBSD_NR___lwp_unregister_all 329
#define TARGET_NETBSD_NR___lwp_unregister_all 330
#define TARGET_NETBSD_NR___lwp_unregister_all 331
#define TARGET_NETBSD_NR___lwp_unregister_all 332
#define TARGET_NETBSD_NR___lwp_unregister_all 333
#define TARGET_NETBSD_NR___lwp_unregister_all 334
#define TARGET_NETBSD_NR___lwp_unregister_all 335
#define TARGET_NETBSD_NR___lwp_unregister_all 336
#define TARGET_NETBSD_NR___lwp_unregister_all 337
#define TARGET_NETBSD_NR___lwp_unregister_all 338
#define TARGET_NETBSD_NR___lwp_unregister_all 339
#define TARGET_NETBSD_NR___lwp_unregister_all 340
#define TARGET_NETBSD_NR___lwp_unregister_all 341
#define TARGET_NETBSD_NR___lwp_unregister_all 342
#define TARGET_NETBSD_NR___lwp_unregister_all 343
#define TARGET_NETBSD_NR___lwp_unregister_all 344
#define TARGET_NETBSD_NR___lwp_unregister_all 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_pollts 374
#define TARGET_NETBSD_NR_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR___stat30 387
#define TARGET_NETBSD_NR___fstat30 388
#define TARGET_NETBSD_NR___lstat30 389
#define TARGET_NETBSD_NR___getdents30 390
#define TARGET_NETBSD_NR___ntp_gettime30 391
#define TARGET_NETBSD_NR___socket30 392
#define TARGET_NETBSD_NR___getfh30 393
#define TARGET_NETBSD_NR___fhopen40 394
#define TARGET_NETBSD_NR___fhstatvfs140 395
#define TARGET_NETBSD_NR_fhstat40 398
#define TARGET_NETBSD_NR_aio_cancel 399
#define TARGET_NETBSD_NR_aio_error 400
#define TARGET_NETBSD_NR_aio_fsync 401
#define TARGET_NETBSD_NR_aio_read 402
#define TARGET_NETBSD_NR_aio_return 403
#define TARGET_NETBSD_NR_aio_suspend 404
#define TARGET_NETBSD_NR_aio_write 405
#define TARGET_NETBSD_NR_lio_listio 406
#define TARGET_NETBSD_NR__mount50 410
#define TARGET_NETBSD_NR_mremap 411
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy 413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR__pset_bind 415
#define TARGET_NETBSD_NR__posix_fadvise50 416
# Default configuration for sparc64-bsd-user

/*  $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $  */

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

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_fchdir 12
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
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---

Open Source Used In Tetration 3.5.1  2844
/* syscall flags from machine/trap.h */

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

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* */

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#define TARGET_OPENBSD_NR_fstatfs 309

/* Open Source Used In Tetration 3.5.1 2845 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */

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

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

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not supported */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */
/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */
/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

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

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ENOTCONN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

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

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */
/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

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

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

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
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<signature of Ty Coon>, 1 April 1989  
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The End

#!perl

=head1 NAME

copyright.t
=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
  # returns the latest copyright year from the top-level README file
  {

open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "
my $copyright_msg = <$readme>

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

$year;
}

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

$year;
}

1.310 opensaml-profile-impl 3.3.0

1.311 xz 5.2.3
1.311.1 Available under license :

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

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

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

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<th>Year</th>
<th>Owner</th>
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1.314 shadow-utils 4.1.5.1 25.el7

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11.20090921gitdf3cb4.2.el6

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1.317 libsigc 2.10.0 1.el7

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

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1.318 libxcb 1.10-2ubuntu1
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1.319 linux-meta 3.13.0.170.181

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1.320 which 2.19 6.el6

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1.321 perl 5.16.3-291.el7

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

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.,"
build_requires:
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

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

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

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

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


"license 'perl' is valid"
);

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

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

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

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

  my $mb = $dist->new_from_context();
  isa_ok( $mb, "Module::Build" );
  is( $mb->license, 'VaporWare', "license 'VaporWare' is valid" );
  my $meta = $mb->get_metadata(fatal => 0);

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

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

1.322 jcip-annotation 1.0 1
1.322.1 Available under license:
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/NotThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java

---

1.323 httpcomponents-client 4.5
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THE BASIC LIBRARY FUNCTIONS

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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1.336 base-passwd 3.5.33

1.336.1 Available under license:

Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
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```
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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That's all there is to it!
(This file is under construction.)

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

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

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

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

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

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

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

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.
The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

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

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

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

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

### 1.342 perl-class-isa 0.36-1010.el7

#### 1.342.1 Available under license:

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Name: perl-Class-ISA
Version: 0.36
Release: 1010%{?dist}
Summary: Report the search path for a class's ISA tree
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/Class-ISA/
Source0: http://www.cpan.org/authors/id/S/SM/SMUELLER/Class-ISA-%{version}.tar.gz
BuildArch: noarch
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(Test)
Requires: perl(:MODULE_COMPAT_%(eval "\"perl -V:version\"; echo $version\")

%description
This library provides functions that return the list (in order) of names of (super-)classes Perl would search to find a method, with no duplicates.
%prep
%setup -q -n Class-ISA-%{version}

%build
perl Makefile.PL INSTALLDIRS=vendor
make %{?_smp_mflags}

%install
make pure_install DESTDIR=%{buildroot}
find %{buildroot} -type f -name .packlist -exec rm -f {} \;
find %{buildroot} -type d -exec rmdir {} 2>/dev/null \;
rm -rf %{buildroot}/%{_mandir}/man3/*
%{_fixperms} %{buildroot}/*

%check
make test

%files
%doc ChangeLog README
%{perl_vendorlib}/*

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 0.36-1010
  - Mass rebuild 2013-12-27

* Wed Aug 15 2012 Daniel Mach <dmach@redhat.com> - 0.36-1009.1
  - Rebuild for perl 5.16

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.36-1009
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Mon Jun 11 2012 Petr Pisar <ppisar@redhat.com> - 0.36-1008
  - Perl 5.16 rebuild

* Fri Apr 13 2012 Petr abata <contyk@redhat.com> - 0.36-1007
  - Change description to something more descriptive (#811144)
  - Modernize spec

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.36-1006
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Jun 17 2011 Marcela Malov <mmaslano@redhat.com> - 0.36-1005
  - Perl mass rebuild

* Tue Feb 08 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.36-1004
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild
NAME
  Class::ISA -- report the search path for a class's ISA tree

SYNOPSIS
  # Suppose you go: use Food::Fishstick, and that uses and
  # inherits from other things, which in turn use and inherit
  # from other things. And suppose, for sake of brevity of
  # example, that their ISA tree is the same as:

  @Food::Fishstick::ISA = qw(Food::Fish Life::Fungus Chemicals);
  @Food::Fish::ISA = qw(Food);
  @Food::ISA = qw(Matter);
  @Life::Fungus::ISA = qw(Life);
  @Chemicals::ISA = qw(Matter);
  @Life::ISA = qw(Matter);
  @Matter::ISA = qw();

  use Class::ISA;
  print "Food::Fishstick path is:\n",
        join(" ", Class::ISA::super_path('Food::Fishstick')),
        "\n";

  That prints:

  Food::Fishstick path is:
    Food, Fish, Food, Matter, Life::Fungus, Life, Chemicals

DESCRIPTION
  Suppose you have a class (like Food::Fish::Fishstick) that is derived,
  via its @ISA, from one or more superclasses (as Food::Fish::Fishstick is
  from Food::Fish, Life::Fungus, and Chemicals), and some of those
  superclasses may themselves each be derived, via its @ISA, from one or
  more superclasses (as above).
When, then, you call a method in that class ($fishstick->calories), Perl first searches there for that method, but if it's not there, it goes searching in its superclasses, and so on, in a depth-first (or maybe "height-first" is the word) search. In the above example, it'd first look in Food::Fish, then Food, then Matter, then Life::Fungus, then Life, then Chemicals.

This library, Class::ISA, provides functions that return that list -- the list (in order) of names of classes Perl would search to find a method, with no duplicates.

FUNCTIONS

the function Class::ISA::super_path($CLASS)
This returns the ordered list of names of classes that Perl would search thru in order to find a method, with no duplicates in the list. $CLASS is not included in the list. UNIVERSAL is not included -- if you need to consider it, add it to the end.

the function Class::ISA::self_and_super_path($CLASS)
Just like "super_path", except that $CLASS is included as the first element.

the function Class::ISA::self_and_super_versions($CLASS)
This returns a hash whose keys are $CLASS and its (super-)superclasses, and whose values are the contents of each class's $VERSION (or undef, for classes with no $VERSION).

The code for self_and_super_versions is meant to serve as an example for precisely the kind of tasks I anticipate that self_and_super_path and super_path will be used for. You are strongly advised to read the source for self_and_super_versions, and the comments there.

CAUTIONARY NOTES

* Class::ISA doesn't export anything. You have to address the functions with a "Class::ISA:" on the front.

* Contrary to its name, Class::ISA isn't a class; it's just a package. Strange, isn't it?

* Say you have a loop in the ISA tree of the class you're calling one of the Class::ISA functions on: say that Food inherits from Matter, but Matter inherits from Food (for sake of argument). If Perl, while searching for a method, actually discovers this cyclicity, it will throw a fatal error. The functions in Class::ISA effectively ignore this cyclicity; the Class::ISA algorithm is "never go down the same path twice", and cyclicities are just a special case of that.
* The Class::ISA functions just look at @ISAs. But theoretically, I suppose, AUTOLOADs could bypass Perl's ISA-based search mechanism and do whatever they please. That would be bad behavior, tho; and I try not to think about that.

* If Perl can't find a method anywhere in the ISA tree, it then looks in the magical class UNIVERSAL. This is rarely relevant to the tasks that I expect Class::ISA functions to be put to, but if it matters to you, then instead of this:

```perl
@supers = Class::Tree::super_path($class);
```
do this:

```perl
@supers = (Class::Tree::super_path($class), 'UNIVERSAL');
```
And don't say no-one ever told ya!

* When you call them, the Class::ISA functions look at @ISAs anew -- that is, there is no memoization, and so if ISAs change during runtime, you get the current ISA tree's path, not anything memoized. However, changing ISAs at runtime is probably a sign that you're out of your mind!

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AUTHOR

Sean M. Burke "sburke@cpan.org"

MAINTAINER

Maintained by Steffen Mueller "smueller@cpan.org".

Found in path(s):
* /opt/cola/permits/1129937164_1612406686.83/0/perl-Class-ISA-0.36-1010.el7-1.src.rpm-cosi-expand-archive-Udr77NEB/Class-ISA-0.36.tar.gz-cosi-expand-archive-aFhDgBt2/Class-ISA-0.36/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Class::ISA - report the search path for a class's ISA tree

=head1 SYNOPSIS

# Suppose you go: use Food::Fishstick, and that uses and
# inherits from other things, which in turn use and inherit
# from other things. And suppose, for sake of brevity of
# example, that their ISA tree is the same as:

@Food::Fishstick::ISA = qw(Food::Fish Life::Fungus Chemicals);
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@Chemicals::ISA = qw(Matter);
@Life::ISA = qw(Matter);
@Matter::ISA = qw();

use Class::ISA;
print "Food::Fishstick path is:\n ",
     join(" ", Class::ISA::super_path('Food::Fishstick')),
     "\n";

That prints:

Food::Fishstick path is:
Food::Fish, Food, Matter, Life::Fungus, Life, Chemicals

=head1 DESCRIPTION

Suppose you have a class (like Food::Fish::Fishstick) that is derived,
via its @ISA, from one or more superclasses (as Food::Fish::Fishstick
is from Food::Fish, Life::Fungus, and Chemicals), and some of those
superclasses may themselves each be derived, via its @ISA, from one or
more superclasses (as above).

When, then, you call a method in that class ($fishstick->calories),
Perl first searches there for that method, but if it's not there, it
goes searching in its superclasses, and so on, in a depth-first (or
maybe "height-first" is the word) search. In the above example, it'd
first look in Food::Fish, then Food, then Matter, then Life::Fungus,
then Life, then Chemicals.

This library, Class::ISA, provides functions that return that list --
the list (in order) of names of classes Perl would search to find a
method, with no duplicates.

=head1 FUNCTIONS

=over

=item the function Class::ISA::super_path($CLASS)

This returns the ordered list of names of classes that Perl would
search thru in order to find a method, with no duplicates in the list. $CLASS is not included in the list. UNIVERSAL is not included -- if you need to consider it, add it to the end.

=item the function Class::ISA::self_and_super_path($CLASS)

Just like C<super_path>, except that $CLASS is included as the first element.

=item the function Class::ISA::self_and_super_versions($CLASS)

This returns a hash whose keys are $CLASS and its (super-)superclasses, and whose values are the contents of each class's $VERSION (or undef, for classes with no $VERSION).

The code for self_and_super_versions is meant to serve as an example for precisely the kind of tasks I anticipate that self_and_super_path and super_path will be used for. You are strongly advised to read the source for self_and_super_versions, and the comments there.

=back

=head1 CAUTIONARY NOTES

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* Say you have a loop in the ISA tree of the class you're calling one of the Class::ISA functions on: say that Food inherits from Matter, but Matter inherits from Food (for sake of argument). If Perl, while searching for a method, actually discovers this cyclicity, it will throw a fatal error. The functions in Class::ISA effectively ignore this cyclicity; the Class::ISA algorithm is "never go down the same path twice", and cyclicities are just a special case of that.

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@supers = Class::Tree::super_path($class);

do this:

@supers = (Class::Tree::super_path($class), 'UNIVERSAL');

And don’t say no-one ever told ya!

* When you call them, the Class::ISA functions look at @ISAs anew --
  that is, there is no memoization, and so if ISAs change during
  runtime, you get the current ISA tree’s path, not anything memoized.
  However, changing ISAs at runtime is probably a sign that you’re out
  of your mind!

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=head1 MAINTAINER

Maintained by Steffen Mueller C<smueller@cpan.org>.

=cut

Found in path(s):
* /opt/cola/permits/1129937164_1612406686.83/0/perl-Class-ISA-0.36-1010.el7-1.src.rpm-cosi-expand-archive-Udr77NEB/Class-ISA-0.36.tar.gz-cosi-expand-archive-aFhDgBt2/Class-ISA-0.36/lib/Class/ISA.pm
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license: unknown

Found in path(s):
* /opt/cola/permits/1129937164_1612406686.83/0/perl-Class-ISA-0.36-1010.el7-1.src.rpm-cosi-expand-archive-Udr77NEB/Class-ISA-0.36.tar.gz-cosi-expand-archive-aFhDgBt2/Class-ISA-0.36/META.yml

1.343 linux-kernel 3.10.0
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   * *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   * *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   * *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.

PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstart() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:

1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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for patching the cable card decoder driver

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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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

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

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

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

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

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

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

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# Jackson JSON processor

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

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1.375 joda-time 2.9.3

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1.376 astroid 1.0.1-1

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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# spdx-license-ids


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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):
npm install spdx-license-ids

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `Array<string>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
```

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      'padlock_asm',
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  }
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'openssl_ex_libs_BSD-x86_64': [],
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
```
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(valid('Apache 2.0'),
{
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
});
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(valid('GPL-3.0-only OR BSD-2-Clause'),
validSPDXExpression);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
};
```
"SEE LICENSE IN <filename>"},
]
);

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);

assert.deepEqual(
  valid('UNLICENSED'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    unlicensed: true
  }
);

assert.deepEqual(valid('UNLICENCED'), unlicensed);


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```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);

assert.deepEqual(
  valid('UNLICENSED'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    unlicensed: true
  }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
1.381 mkdirp 0.5.0-1
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GIMP Palette
Name: custompalette
Columns: 4
#
 0 0 0   Index 3
 65 38 30   Index 4
 103 62 49   Index 6
  79 73 72   Index 7
 114 101 97   Index 8
 208 127 100   Index 9
 151 144 142   Index 10
 221 207 199   Index 11
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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Appendix: How to Apply These Terms to Your New Libraries

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1.385 openscap 1.2.17 2.el7

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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1.389 lib-pq 1.1.1

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1.390 unzip 6.0 2.el6_6

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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

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

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.
1.391 shadow 4.1.5.1-1ubuntu9.2

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The test programs in this directory tree are for demonstrating and
testing the functionality of the SDL library, and are placed in the
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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)
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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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identifiable sections of that work are not derived from the Library,
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it.

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.401 gzip 1.3.12-19.el6_4
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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).

* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.413 jetty-util 9.2.24.v20180105

1.414 popt 1.13 16.el7
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1.415 json-c 0.99.8

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1.416 hppc 0.7.1

1.417 pmml-schema 1.2.15

1.418 util-linux 2.25.2-6

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Version 2.1, February 1999

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

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

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Mersenne Twister

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

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

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

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

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.
The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

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

Asynchronous socket services
-----------------------------

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

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test_epoll
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Select kqueue
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----------

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-------

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zlib
----

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1.424 govmomi 0.20.1

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*/

package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{} )
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
  govc license.assign $VCSA_LICENSE_KEY
  govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
  govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {

return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
    if cmd.remove {
        return m.Remove(ctx, id)
    }

    info, err := m.Update(ctx, id, key, cmd.name)
    if err != nil {
        return err
    }

    return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}
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*/

package license
import (
    "context"
    "flag"
)

"github.com/vmware/govmomi/govc/cli"
"github.com/vmware/govmomi/govc/flags"
"github.com/vmware/govmomi/license"

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag
    feature string
}

func init() {
    cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "," , featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

m := license.NewManager(client)
result, err := m.List(ctx)
if err != nil {
    return err
}

if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
*/

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*/

package license

import (  
    "context"  
    "flag"  
    "fmt"  

    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/types"
)

type add struct {  
  *flags.ClientFlag  
  *flags.OutputFlag
}

func init() {
cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    // var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
result := make(licenseOutput, 0)
for _, v := range f.Args() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
        return err
    }
    result = append(result, license)
}
return cmd.WriteResult(licenseOutput(result))

#!/usr/bin/env bats
load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
        skip "requires evaluation license"
    fi
}

get_key() {
    jq ".[1] | select(.LicenseKey == "$1")"
}

get_property() {
    jq -r ".Properties[] | select(.Key == "$1") .Value"
}

get_label() {
    govc license.ls -json | jq -r ".[] | select(.LicenseKey == "$1") .Labels[] .Key .Value"
}

get_nlabel() {
    govc license.ls -json | jq ".[] | select(.LicenseKey == "$1") .Labels[].Key" | wc -l
}

@test "license.add" {
    esx_env

    verify_evaluation

    run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00000-00002
    assert_success
@test "license.remove" {
  esx_env

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00001
  assert_success
}

@test "license.ls" {
  vcsim_env

  verify_evaluation

  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000 <<<output | jq -r ".Name")"
}

@test "license.decode" {
  esx_env

  verify_evaluation

  key=00000-00000-00000-00000-00000

  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
  vcsim_env

  key=00000-00000-00000-00000-00000

  assert_equal 0 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"

  run govc license.label.set $key foo bar
  assert_success
assert_equal 1 "$(get_nlabel $key)"
assert_equal bar "$(get_label $key foo)"

run govc license.label.set $key biz baz
assert_success
run govc license.label.set $key foo bar2
assert_success

assert_equal 2 "$(get_nlabel $key)"
assert_equal bar2 "$(get_label $key foo)"

run govc license.label.set $key foo ""
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"
}
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package simulator
import (  
"github.com/vmware/govmomi/object"
"github.com/vmware/govmomi/vim25/methods"
"github.com/vmware/govmomi/vim25/mo"
"github.com/vmware/govmomi/vim25/soap"
"github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{  
LicenseKey: "00000-00000-00000-00000-00000",  
EditionKey: "eval",  
Name: "Evaluation Mode",  
Properties: []types.KeyAnyValue{  
{  
Key: "feature",  
Value: types.KeyValue{  
Key: "serialuri:2",  
Value: "Remote virtual Serial Port Concentrator",  
},  
},  
{  
Key: "feature",  
Value: types.KeyValue{  
Key: "dvs",  
Value: "vSphere Distributed Switch",  
},  
},  
},  
}

// LicenseManager struct  
mo.LicenseManager  
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {  
m := &LicenseManager{}  
m.Self = ref  
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
}

if Map.IsVPX() {  
am := Map.Put(&LicenseAssignmentManager{}).Reference()  
m.LicenseAssignmentManager = &am
}

return m
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        Res: &types.UpdateLicenseLabelResponse{},
    }
    for i := range m.Licenses {
        license := &m.Licenses[i]
        if req.LicenseKey != license.LicenseKey {
            continue
        }
        body.Res = new(types.UpdateLicenseLabelResponse)
    }
}
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })

    return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    return body
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
},
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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*/

package license

import (  
  "context"  
  "flag"
  
  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"  
  "github.com/vmware/govmomi/vim25/methods"  
  "github.com/vmware/govmomi/vim25/types"
)

type label struct {  
  *flags.ClientFlag
}

func init() {  
  cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {  
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {  
  return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {  
  return "Set license labels."  
  
Examples:  
  govc license.label.set 00000-00000-00000-00000-00000-00000-00000-00000 team cnx # add/set label
gove license.label.set 00000-00000-00000-00000-00000 team "" # remove label
gove license.ls -json | jq '.[] | select(.Labels[].Key == "team") .LicenseKey'
}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
    return err
}

m := license.NewManager(client)

if f.NArg() != 3 {
    return flag.ErrHelp
}

req := types.UpdateLicenseLabel{
    This:       m.Reference(),
    LicenseKey: f.Arg(0),
    LabelKey:   f.Arg(1),
    LabelValue: f.Arg(2),
}

_, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}

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*/

package simulator

import (  
    "context"  
    "reflect"  
    "testing"
func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()

def err := m.Create()
if err != nil {
    t.Fatal(err)
}

    s := m.Service.NewServer()
    defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

    lm := license.NewManager(c.Client)
    am, err := lm.AssignmentManager(ctx)
if err != nil {
    t.Fatal(err)
}

    la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

    if len(la) != 0 {
    t.Errorf("unexpected license")
}

    finder := find.NewFinder(c.Client, false)
    hosts, err := finder.HostSystemList(ctx, "/..."
if err != nil {
    t.Fatal(err)
}

    host := hosts[0].Reference().Value
}
for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()
    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    _, err = lm.AssignmentManager(ctx)
    if err == nil {
        t.Fatal("expected error")
    }

    la, err := lm.List(ctx)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()
    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    key := "00000-00000-00000-00000-11111"
    labels := map[string]string{"key": "value"}

    info, err := lm.Add(ctx, key, labels)
    if err != nil {
        t.Fatal(err)
    }

    if info.LicenseKey != key {
        t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
    }

    if len(info.Labels) != len(labels) {
        t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
    }

    if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
        t.Fatalf("expect label to be {key:value}; got {"%s:%s"}", info.Labels[0].Key, info.Labels[0].Value)
    }
}
} la, err := lm.List(ctx) if err != nil { t.Fatal(err) }

if len(la) != 2 {
 t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
 t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
 t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
 t.Fatalf("expect label to be {key:value}; got {%s:%s}", la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key) if err != nil {
 t.Fatal(err)
}

la, err = lm.List(ctx) if err != nil {
 t.Fatal(err)
}

if len(la) != 1 {
 t.Fatal("no licenses")
}

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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    )

type decode struct {
    *flags.ClientFlag
}
*flags.OutputFlag

feature string
}

func init() {
cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }
  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}

func (cmd *decode) Usage() string {
  return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }

  m := license.NewManager(client)
  for _, v := range f.Args() {
    license, err := m.Decode(ctx, v)
    if err != nil {
      return err
    }
    result = append(result, license)
  }

  return nil
}

var result license.InfoList
m := license.NewManager(client)
for _, v := range f.Args() {
  license, err := m.Decode(ctx, v)
  if err != nil {
    return err
  }
  result = append(result, license)

  return nil
}
package license

import {

if cmd.feature != "" {
result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import (
type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
req := types.DecodeLicense{
This: m.Reference(),
LicenseKey: key,
}

res, err := methods.DecodeLicense(ctx, m.Client(), &req)
if err != nil {
return types.LicenseManagerLicenseInfo{}, err
}
return res.Returnval, nil

func (m Manager) Remove(ctx context.Context, key string) error {
req := types.RemoveLicense{
This: m.Reference(),
LicenseKey: key,
}
_, err := methods.RemoveLicense(ctx, m.Client(), &req)
return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
req := types.UpdateLicense{
This: m.Reference(),
LicenseKey: key,
Labels: mapToKeySlice(labels),
}
res, err := methods.UpdateLicense(ctx, m.Client(), &req)
if err != nil {
return types.LicenseManagerLicenseInfo{}, err
}
return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
var mlm mo.LicenseManager
err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
if err != nil {
return nil, err
}
return InfoList(mlm.Licenses), nil
func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }

    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")

    lf.name = f[0]

    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
if p.Key != "feature" {
    continue
}

kv, ok := p.Value.(types.KeyValue)
if !ok {
    continue
}

lf := parseLicenseFeature(kv.Key)
if lf.name == feature.name && lf.level >= feature.level {
    return true
}

return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList
    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }
    return result
}

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*/

package license

import {
  "context"
  "flag"
  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
}

type remove struct {
*flags.ClientFlag
*flags.OutputFlag
}

func init() {
cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
  ctx = flags.NewOutputFlag(ctx)
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)
func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    return nil
}

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*/
package license

import {
    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{ })
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {

client, err := cmd.Client()
if err != nil {
    return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
    return err
}

return cmd.WriteResult(assignedOutput(assigned))


func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s	", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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*/

package license

import (  
"fmt"  
"io"  
"os"  
"text/tabwriter"

  "github.com/vmware/govmomi/vim25/types"
)
type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ', ', 0)
    fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.LicenseKey)
        fmt.Fprintf(tw, "%s\t", v.EditionKey)
        fmt.Fprintf(tw, "%d\t", v.Used)
        fmt.Fprintf(tw, "%d\t", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)

type AssignmentManager struct {  
    object.Common  
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {  
    req := types.QueryAssignedLicenses{  
        This:     m.Reference(),  
        EntityId: id,  
    }  
    
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)  
    if err != nil {  
        return nil, err  
    }  
    
    return res.Returnval, nil  
}
func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }
    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }
    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return &res.Returnval, nil
}

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1.426 asm-commons 5.0.4

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

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

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  jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/TypePath.java

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

Found in path(s):
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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  jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/MethodWriter.java

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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/InnerClassNode.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/Handle.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/InsnNode.java
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jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/Textifiable.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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  jar/org/objectweb/asm/optimizer/shrink-writer.properties
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/shrink-signatures.properties

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

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*/opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/GeneratorAdapter.java

1.427 libmng 1.0.10 14.el7
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/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
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MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers  <jason1@pobox.com>
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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That's all there is to it!

1.428 jackson 2.9.8

1.428.1 Available under license:
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
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1.429 make 3.81-8.2ubuntu3

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

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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Appendix: How to Apply These Terms to Your New Programs

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

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

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.

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

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

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

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

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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
This is the Debian GNU/Linux prepackaged version of GNU Make. GNU
Make was written by Richard Stallman and Roland McGrath.

This package was put together by Ian Murdock <imurdock@debian.org>,
from sources obtained from: ftp://ftp.gnu.org/gnu/make/

Changes:
* added Debian GNU/Linux package maintenance system files
* removed documentation that fails to meet the Debian free software
guidelines.
The package has since changed maintainers, the current maintainer being Manoj Srivastava <srivasta@pilgrim.umass.edu>.

The Debian specific changes are 1997-2009, Manoj Srivastava <srivasta@debian.org>, and distributed under the terms of the GNU General Public License, version 2.

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The documentation for this package is available under the GNU Free Documentation License, and has been removed.

Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27
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Version 2, June 1991

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Copyright (C) <year>  <name of author>

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

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

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

That's all there is to it!

1.430  libio-pty-perl 1.08-1build4

1.430.1 Available under license :
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Tty - Low-level allocate a pseudo-Tty, import constants.

=head1 VERSION

1.08
use IO::Tty qw(TIOCNOTTY);
...
# use only to import constants, see IO::Pty to create ptsys.

C<IO::Tty> is used internally by C<IO::Pty> to create a pseudo-tty. You wouldn't want to use it directly except to import constants, use C<IO::Pty>. For a list of importable constants, see L<IO::Tty::Constant>.

Windows is now supported, but ONLY under the Cygwin environment, see L<http://sources.redhat.com/cygwin/>.

Please note that pty creation is very system-dependend. From my experience, any modern POSIX system should be fine. Find below a list of systems that C<IO::Tty> should work on. A more detailed table (which is slowly getting out-of-date) is available from the project pages document manager at SourceForge L<http://sourceforge.net/projects/expectperl/>.

If you have problems on your system and your system is listed in the "verified" list, you probably have some non-standard setup, e.g. you compiled your Linux-kernel yourself and disabled ptsys (bummer!). Please ask your friendly sysadmin for help.

If your system is not listed, unpack the latest version of C<IO::Tty>, do a C<perl Makefile.PL; make; make test; uname -a> and send me (F<RGiersig@cpan.org>) the results and I'll see what I can deduce from that. There are chances that it will work right out-of-the-box...

If it's working on your system, please send me a short note with details (version number, distribution, etc. `uname -a` and `perl -V` is a good start; also, the output from "perl Makefile.PL" contains a lot of interesting info, so please include that as well) so I can get an overview. Thanks!

This is a list of systems that C<IO::Tty> seems to work on (make test' passes) with comments about "features":

=item * AIX 4.3
>Returns EIO instead of EOF when the slave is closed. Benign.

=item * AIX 5.x

=item * FreeBSD 4.4

EOF on the slave tty is not reported back to the master.

=item * OpenBSD 2.8

The ioctl TIOCSCTTY sometimes fails. This is also known in Tcl/Expect, see http://expect.nist.gov/FAQ.html

EOF on the slave tty is not reported back to the master.

=item * Darwin 7.9.0

=item * HPUX 10.20 & 11.00

EOF on the slave tty is not reported back to the master.

=item * IRIX 6.5

=item * Linux 2.2.x & 2.4.x

Returns EIO instead of EOF when the slave is closed. Benign.

=item * OSF 4.0

EOF on the slave tty is not reported back to the master.

=item * Solaris 8, 2.7, 2.6

Has the “feature” of returning EOF just once?!

EOF on the slave tty is not reported back to the master.

=item * Windows NT/2k/XP (under Cygwin)

When you send (print) a too long line (>160 chars) to a non-raw pty, the call just hangs forever and even alarm() cannot get you out. Don't complain to me...

EOF on the slave tty is not reported back to the master.

=item * z/OS
The following systems have not been verified yet for this version, but a previous version worked on them:

- SCO Unix
- NetBSD

probably the same as the other *BSDs...

If you have additions to these lists, please mail them to E<lt>F<RGiersig@cpan.org>E<gt>.

=head1 SEE ALSO

L<IO::Pty>, L<IO::Tty::Constant>

=head1 MAILING LISTS

As this module is mainly used by Expect, support for it is available via the two Expect mailing lists, expectperl-announce and expectperl-discuss, at

http://lists.sourceforge.net/lists/listinfo/expectperl-announce

and

http://lists.sourceforge.net/lists/listinfo/expectperl-discuss

=head1 AUTHORS

Originally by Graham Barr E<lt>F<gbarr@pobox.com>E<gt>, based on the Ptty module by Nick Ing-Simmons E<lt>F<nik@tiuk.ti.com>E<gt>.

Now maintained and heavily rewritten by Roland Giersig E<lt>F<RGiersig@cpan.org>E<gt>.

Contains copyrighted stuff from openssh v3.0p1, authored by Tatu Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller <Todd.Miller@courtesan.com>. I also got a lot of inspiry from the pty
code in Xemacs.

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* /opt/cola/permits/1135381700_1613503811.31/0/libio-pty-perl-1-08-orig-1-tar-gz/IO-Tty-1.08/Tty.pm
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=head1 NAME

IO::Pty - Pseudo TTY object class

=head1 VERSION

1.08

=head1 SYNOPSIS

use IO::Pty;

$pty = new IO::Pty;

$slave  = $pty->slave;

foreach $val (1..10) {
    print $pty "$val\n";
    $_= <$slave>;
    print "$_";
}

close($slave);

=head1 DESCRIPTION

C<IO::Pty> provides an interface to allow the creation of a pseudo tty.

C<IO::Pty> inherits from C<IO::Handle> and so provide all the methods
defined by the C<IO::Handle> package.

Please note that pty creation is very system-dependend. If you have
problems, see L<IO::Tty> for help.

=head1 CONSTRUCTOR

=over 3

=item new

The C<new> constructor takes no arguments and returns a new file
object which is the master side of the pseudo tty.

=back
=head1 METHODS

=over 4

=item ttyname()

Returns the name of the slave pseudo tty. On UNIX machines this will be the pathname of the device. Use this name for informational purpose only, to get a slave filehandle, use slave().

=item slave()

The C<slave> method will return the slave filehandle of the given master pty, opening it anew if necessary. If IO::Stty is installed, you can then call C<$slave-E<gt>stty()> to modify the terminal settings.

=item close_slave()

The slave filehandle will be closed and destroyed. This is necessary in the parent after forking to get rid of the open filehandle, otherwise the parent will not notice if the child exits. Subsequent calls of C<slave()> will return a newly opened slave filehandle.

=item make_slave_controlling_terminal()

This will set the slave filehandle as the controlling terminal of the current process, which will become a session leader, so this should only be called by a child process after a fork(), e.g. in the callback to C<sync_exec()> (see L<Proc::SyncExec>). See the C<try> script (also C<test.pl>) for an example how to correctly spawn a subprocess.

=item set_raw()

Will set the pty to raw. Note that this is a one-way operation, you need IO::Stty to set the terminal settings to anything else.

On some systems, the master pty is not a tty. This method checks for that and returns success anyway on such systems. Note that this method must be called on the slave, and probably should be called on the master, just to be sure, i.e.

$pty->slave->set_raw();
$pty->set_raw();

=item clone_winsize_from(
$\Vietnamese

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Gets the terminal size from filehandle FH (which must be a terminal) and transfers it to the pty. Returns true on success and undef on failure. Note that this must be called upon the I<slave>, i.e.

\$pty->slave->clone_winsize_from(\*STDIN);

On some systems, the master pty also isatty. I actually have no idea if setting terminal sizes there is passed through to the slave, so if this method is called for a master that is not a tty, it silently returns OK.

See the C<try> script for example code how to propagate SIGWINCH.

=back

=head1 SEE ALSO

L<IO::Tty>, L<IO::Tty::Constant>, L<IO::Handle>, L<Expect>, L<Proc::SyncExec>

=head1 MAILING LISTS

As this module is mainly used by Expect, support for it is available via the two Expect mailing lists, expectperl-announce and expectperl-discuss, at

http://lists.sourceforge.net/lists/listinfo/expectperl-announce

and

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=head1 AUTHORS

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Now maintained and heavily rewritten by Roland Giersig \(<lt>R<RGiersig@cpan.org>E<gt>\).

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1.431 go-nsq 1.0.7

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

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann
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* Mark M. Hoffman
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* Jean Delvare
  New libsensor API, and migration of sensors and sensord thereto.
  Many optimizations in libsensor and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensor.

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# spdx-license-ids

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[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

## Use as a JavaScript Library

[![devDependency Status](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)

### Installation

#### Package managers

#### [npm](https://www.npmjs.com/)

```
```

npm install spdx-license-ids
```

#### [bower](http://bower.io/)

```
```

bower install spdx-license-ids
```

#### [Duo](http://duojs.org/)

```
```

javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```

#### Standalone
### API

#### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```

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```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

var firstAST = {
  left: { license: 'LGPL-2.1' },
  conjunction: 'or',
  right: {
    left: { license: 'BSD-3-Clause' },
    conjunction: 'and',
    right: { license: 'MIT' } }
}

assert.deepEqual(
  parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
  firstAST)

var secondAST = {
  left: { license: 'MIT' },
  conjunction: 'and',
  right: {
    left: {
      license: 'LGPL-2.1',
      plus: true },
    conjunction: 'and',
    right: { license: 'BSD-3-Clause' } }
}

assert.deepEqual(
  parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'),
  secondAST)

// We handle all the bare SPDX license and exception ids as well.
require('spdx-license-ids').forEach(function(id) {
  assert.deepEqual(
    parse(id),
    { license: id })
```
require('spdx-exceptions').forEach(function(e) {
    assert.deepEqual(
        parse(id + ' WITH ' + e),
        { license: id, exception: e }) }) })

---

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---
```javascript
var correct = require('spdx-correct');
var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')

assert(correct('No idea what license') === null)
```

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================

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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),

```

Open Source Used In Tetration 3.5.1 4530
validForOldPackages: false,
validForNewPackages: false,
warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
  'license is similar to the valid expression "Apache-2.0"
]
]
);

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0 OR BSD-2-Clause)'),
  validSPDXExpression
);

... except if they contain 'LicenseRef':

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]
}:

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);

---
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
if (false) {
  assert.deepEqual(
    valid('SEE LICENSE IN LICENSE.txt'),
    {
      validForNewPackages: true,
      validForOldPackages: true,
      inFile: 'LICENSE.txt'
    }
  );
}
```

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- slave/kpropd_rpc.c
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1.449 findutils 4.4.2-9+b1

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It was downloaded from ftp://ftp.gnu.org/gnu/findutils

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

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* GNU xargs
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src/base/fhash.c	src/base/md5.c	src/base/md5.h
#
src/bdf/bdf.c	src/bdf/bdf.h
src/bdf/bdfdrivr.c  src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
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libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license

Open Source Used In Tetration 3.5.1 4743
with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS  http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl   http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS     http://www.mozilla.org/projects/security/pki/nss/

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axTLS   http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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Heimdal http://www.pdc.kth.se/heimdal/

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GNU GSS http://www.gnu.org/software/gss/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL.
1.461 libmng 1.0.10 4.1.el6

1.461.1 Available under license:

MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers  <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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/* * Parts of this software have been adapted from the libpng package.     *
/* * Although this library supports all features from the PNG specification *
/* * (as MNG descends from it) it does not require the libpng package.      *
/* * It does require the zlib library and optionally the IJG jpeg library, *
/* * and/or the "little-cms" library by Marti Maria (depending on the        */

/* ***************************************************************************/
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
/* */
/* */
/* ***************************************************************************/

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Version 2.1, February 1999

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

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

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

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

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

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

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

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

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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

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If distribution of executable or object code is made by offering
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1.466 jackson 2.8.11

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1.469 rsync 3.1.2 10.el7

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

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

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

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

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

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

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

## Compilation rules
### Dependency rules

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

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

### Versioned libraries rules

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

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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/FormatString.java
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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/DoNotMock.java

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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/CompileTimeConstant.java

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Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and
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"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

13.1 Marketing

Nokia may include Licensee's company name and logo in a publicly available list of Nokia customers and in its public communications.

13.2 No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Nokia, which shall not be unreasonably withheld.

13.3 Termination

Nokia may terminate the Agreement at any time immediately upon written notice by Nokia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party.

Upon termination of this Agreement, Licensee shall return to Nokia all copies of Licensed Software that were supplied by Nokia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Nokia a written confirmation that this has occurred.
13.4 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5.1, 6, 7, 8(iv), 10, 12, 13.5, 13.6, 13.9, 13.10 and 13.11 of this Agreement. Notwithstanding the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

13.5 Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Nokia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6 Payment and Taxes

If credit has been extended to Licensee by Nokia, all payments under this Agreement are due within thirty (30) days of the date Nokia mails its invoice to Licensee. If Nokia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Nokia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7 Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8 Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Nokia shall be given to:

Nokia, Inc.
555 Twin Dolphin Drive, Suite 280
Redwood City, CA 94065 U.S.A.
Fax: +1 650 551 1851

13.9 Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10 Governing Law and Legal Venue

This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defense or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 13.10 is intended to, or shall be deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.

13.11 No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Nokia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/ Modified Software, as applicable, with any other software or hardware not delivered by Nokia under this Agreement.
13.12 Government End Users

A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

Appendix 1

1. Parts of the Licensed Software that are permitted for distribution ("Redistributables"): 

- The Licensed Software's main and plug-in libraries in object code form
- The Licensed Software's configuration tool ("qtconfig")
- The Licensed Software's help tool in object code/executable form ("Qt Assistant")
- The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")
- The Licensed Software's designer tool ("Qt Designer")
- The Licensed Software's IDE tool ("Qt Creator")

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to:

- The Licensed Software's source code and header files
- The Licensed Software's documentation
- The Licensed Software's tool for writing makefiles ("qmake")
- The Licensed Software's Meta Object Compiler ("moc")
- The Licensed Software's User Interface Compiler ("ui" or in the case of Qt Jambi: "juic")
- The Licensed Software's Resource Compiler ("rcc")
- The Licensed Software's generator (only in the case of Qt Jambi)
- The Licensed Software's Qt SDK

License

The CLucene Core Library uses a dual license strategy for the source code. These licenses are the GNU Lesser General Public License (LGPL) and the Apache License (Version 2.0). Users can choose the license they wish to distribute their software under. This means that you do not need to abide by *both* licenses, but rather than you can choose the license which most suits your needs.
To rephrase this and to make it perfectly clear:
CLucene is distributed under the GNU Lesser General Public License (LGPL)
*or*
the Apache License, Version 2.0

However, we are an open source project, and we encourage users to use the LGPL license and participate fully in the free software community. Dual licensing of the CLucene source code provides open and free access to the technology both for the GPL community and for other developers or companies that cannot use the GPL.

You can freely modify, extend, and improve the CLucene source code. The only question is whether or not you must provide the source code and contribute modifications to the community. The GNU and Apache licenses allow different ranges of flexibility in this regard, but in the end, regardless of the license used, we highly recommend that you submit any bugs, incompatibilities or added features.

Note that this same license does *not* apply to the CLucene Contributions package. You should read the COPYING file in that directory or package for more information.

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Qt All Operating Systems Commercial Developer License Agreement
Agreement version 1.2

This Qt All Operating Systems Commercial Developer License Agreement ("Agreement") is a legal agreement between Nokia, Inc. ("Nokia") with its registered office at 102 Corporate Park Drive, White Plains, NY 10604, U.S.A., and you (either an individual or a legal entity) ("Licensee") for the Licensed Software (as defined below).

1. DEFINITIONS

"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.
"Applications" shall mean Licensee's software products created using the Licensed Software which may include portions of the Licensed Software.

"Deployment Platforms" shall mean the Embedded Linux, Windows(R) CE and Windows Mobile operating system(s).

"Designated User(s)" shall mean the employee(s) of Licensee acting within the scope of their employment or Licensee's consultant(s) or contractor(s) acting within the scope of their services for Licensee and on behalf of Licensee.

"Initial Term" shall mean the period of time one (1) year from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Nokia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

"License Certificate" shall mean the document accompanying theLicensed Software which specifies the modules which are licensed under the Agreement, Platforms and Designated Users.

"Licensed Software" shall mean the computer software, "online" or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation delivered by Nokia to Licensee in conjunction with this Agreement. Licensed Software does not include Third Party Software (as defined in Section 7).

"Modified Software" shall mean modifications made to the Licensed Software by Licensee.

"Party" or "Parties" shall mean Licensee and/or Nokia.

"Platforms" shall mean the operating system(s) listed in the License Certificate.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1, Section 1 that may be distributed with or as part of Applications in object code form.

"Support" shall mean standard developer support that is provided by Nokia to assist eligible Designated Users in using the Licensed Software in accordance with its established standard support procedures listed at: http://qt.nokia.com/support-services/files/standardsupport-TermsandConditions.pdf.

"Updates" shall mean a release or version of the Licensed Software containing enhancements, new features, bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for maintenance and support.

2. OWNERSHIP

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Nokia shall own all right, title and interest including the intellectual property rights in and to the information on bug
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3. MODULES

Some of the files in the Licensed Software have been grouped into Modules. These files contain specific notices defining the Module of which they are a part. The Modules licensed to Licensee are specified in the License Certificate accompanying the Licensed Software. The terms of the License Certificate are considered part of the Agreement. In the event of inconsistency or conflict between the language of this Agreement and the License Certificate, the provisions of this Agreement shall govern.

4. VALIDITY OF THE AGREEMENT

By installing, copying, or otherwise using the Licensed Software, Licensee agrees to be bound by the terms of this Agreement. If Licensee does not agree to the terms of this Agreement, Licensee should not install, copy, or otherwise use the Licensed Software. In addition, by installing, copying, or otherwise using any Updates or other components of the Licensed Software that Licensee receives separately as part of the Licensed Software, Licensee agrees to be bound by any additional license terms that accompany such Updates, if any. If Licensee does not agree to the additional license terms that accompany such Updates, Licensee should not install, copy, or otherwise use such Updates.

Upon Licensee's acceptance of the terms and conditions of this Agreement, Nokia grants Licensee the right to use the Licensed Software in the manner provided below.

5. LICENSES

5.1 Using, Modifying and Copying

Nokia grants to Licensee a non-exclusive, non-transferable, perpetual license to use, modify and copy the Licensed Software for Designated Users specified in the License Certificate for the sole purposes of:

(i) designing, developing, and testing Application(s);

(ii) modifying the Licensed Software as limited by section 8 below; and

(iii) compiling the Licensed Software and/or Modified Software source code into object code.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only the Designated Users use the Licensed Software. Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying Nokia, provided that a) the then-current Designated User has not been designated as a replacement during the last six (6) months; and b) there is no more than the specified number of Designated Users at any given time.
5.2 Limited Redistribution

a) Nokia grants Licensee a non-exclusive, royalty-free right to reproduce and distribute the object code form of Redistributables (listed in Appendix 1, Section 1) for execution on the specified Platforms, excluding the Deployment Platforms. Copies of Redistributables may only be distributed with and for the sole purpose of executing Applications permitted under this Agreement that Licensee has created using the Licensed Software. Under no circumstances may any copies of Redistributables be distributed separately. This Agreement does not give Licensee any rights to distribute any of the parts of the Licensed Software listed in Appendix 1, Section 2, neither as a whole nor as parts or snippets of code.

b) Licensee may not distribute, transfer, assign or otherwise dispose of Applications and/or Redistributables, in binary/compiled form, or in any other form, if such action is part of a joint software and hardware distribution, except as provided by a separate runtime distribution license with Nokia or one of its authorized distributors. A joint hardware and software distribution shall be defined as either:

(i) distribution of a hardware device where, in its final end user configuration, the main user interface of the device is provided by Application(s) created by Licensee or others, using a commercial version of a Qt or Qt-based product, and depends on the Licensed Software or an open source version of any Qt or Qt-based software product; or

(ii) distribution of the Licensed Software with a device designed to facilitate the installation of the Licensed Software onto the same device where the main user interface of such device is provided by Application(s) created by Licensee or others, using a commercial version of a Qt or Qt-based product, and depends on the Licensed Software.

c) Licensee's distribution of Licensed Software and/or Modified Software or Applications on Deployment Platforms requires a separate distribution license from Nokia. Notwithstanding the above limitation, Licensee may distribute the Application in binary/compiled form onto devices running Windows CE/Windows Mobile or Symbian, provided the core functionality of the device does not depend on either the Licensed Software or the Application.

5.3 Further Requirements

The licenses granted in this Section 5 by Nokia to Licensee are subject to Licensee's compliance with Section 8 of this Agreement.

6. VERIFICATION

Nokia or a certified auditor on Nokia's behalf, may, upon its reasonable request and at its expense, audit Licensee with respect to the use of the Licensed Software. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. Nokia will not remove, copy, or redistribute any electronic material during the course of an audit. If an audit reveals that Licensee is using the Licensed Software in a way that is in material violation of the terms of the Agreement, then Licensee shall pay Nokia's reasonable costs of conducting the audit. In the case of a material violation, Licensee agrees to pay Nokia any amounts owing that are attributable to the unauthorized use. In the alternative, Nokia reserves the right, at Nokia's sole option, to terminate the licenses for the Licensed Software.
7. THIRD PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included along with the Licensed Software delivery as a convenience for development and testing only. Such source code and libraries may be listed in the ".../src/3rdparty” source tree delivered with the Licensed Software or documented in the Licensed Software where the Third Party Software is used, as may be amended from time to time, do not comprise the Licensed Software. Licensee acknowledges (i) that some part of Third Party Software may require additional licensing of copyright and patents from the owners of such, and (ii) that distribution of any of the Licensed Software referencing any portion of a Third Party Software may require appropriate licensing from such third parties.

8. CONDITIONS FOR CREATING APPLICATIONS

The licenses granted in this Agreement for Licensee to create, modify and distribute Applications is subject to all of the following conditions: (i) all copies of the Applications Licensee creates must bear a valid copyright notice either Licensee’s own or the copyright notice that appears on the Licensed Software; (ii) Licensee may not remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software including but not limited to the About Boxes; (iii) Licensee will indemnify and hold Nokia, its Affiliates, contractors, and its suppliers, harmless from and against any claims or liabilities arising out of the use, reproduction or distribution of Applications; (iv) Applications must be developed using a licensed, registered copy of the Licensed Software; (v) Applications must add primary and substantial functionality to the Licensed Software; (vi) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; however Licensee may use the Licensed Software's scripting functionality solely in order to enable scripting that augments the functionality of the Application(s) without adding primary and substantial functionality to the Application(s); (vii) Licensee may create Modified Software that breaks the source or binary compatibility with the Licensed Software. This includes, but is not limited to, changing the application programming interfaces (“API”) by adding, changing or deleting any variable, method, or class signature in the Licensed Software, the inter-process QCop specification, and/or any inter-process protocols, services or standards in the Licensed Software libraries. To the extent that Licensee breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that Nokia’s ability to provide Support may be prevented or limited and Licensee’s ability to make use of Updates may be restricted; (viii) Applications may not compete with the Licensed Software; (ix) Licensee may not use Nokia’s or any of its suppliers’ names, logos, or trademarks to market Applications, except to state that Licensee’s Application(s) was developed using the Licensed Software.

NOTE: The Open Source Editions of Nokia’s Qt products and the Qt, Qtopia and Qt Extended versions previously licensed by Trolltech (collectively referred to as "Products") are licensed under the terms of the GNU Lesser General Public License version 2.1 ("LGPL") and/or the GNU General Public License versions 2.0 and 3.0 ("GPL") (as applicable) and not under this Agreement. If Licensee, or another third party, has, at any time, developed all (or any portions of) the Application(s) using a version of one of these Products licensed under the LGPL or the GPL, Licensee may not combine such development work with the Licensed Software and must license such Application(s) (or any portions derived there from) under the terms of the GNU Lesser General Public License version 2.1 (Qt only) or GNU General Public License version 2.0 (Qt, Qtopia and Qt Extended) or version 3 (Qt only) copies of which are located at http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html, http://www.fsf.org/licensing/licenses/info/GPLv2.html, and http://www.gnu.org/copyleft/gpl.html.
9. LIMITED WARRANTY AND WARRANTY DISCLAIMER

Nokia hereby represents and warrants with respect to the Licensed Software that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement. Except as set forth above, the Licensed Software is licensed to Licensee "as is". To the maximum extent permitted by applicable law, Nokia on behalf of itself and its suppliers, disclaims all warranties and conditions, either express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, title and non-infringement with regard to the Licensed Software.

10. LIMITATION OF LIABILITY

If, Nokia's warranty disclaimer notwithstanding, Nokia is held to be liable to Licensee whether in contract, tort, or any other legal theory, based on the Licensed Software, Nokia's entire liability to Licensee and Licensee's exclusive remedy shall be, at Nokia's option, either (a) return of the price Licensee paid for the Licensed Software, or (b) repair or replacement of the Licensed Software, provided Licensee returns to Nokia all copies of the Licensed Software as originally delivered to Licensee. Nokia shall not under any circumstances be liable to Licensee based on failure of the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Nokia, under any circumstances, be liable for special damages, punitive or exemplary damages, damages for loss of profits or interruption of business or for loss or corruption of data. Any award of damages from Nokia to Licensee shall not exceed the total amount Licensee has paid to Nokia in connection with this Agreement.

11. SUPPORT AND UPDATES

Licensee will be eligible to receive Support and Updates during the Initial Term, in accordance with Nokia's then current policies and procedures, if any. Such policies and procedures may be changed from time to time. Following the Initial Term, Nokia shall no longer make the Licensed Software available to Licensee unless Licensee purchases additional Support and Updates according to this Section 11 below.

Licensee may purchase additional Support and Updates following the Initial Term at Nokia's terms and conditions applicable at the time of renewal.

12. CONFIDENTIALITY

Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.
“Confidential Information” shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

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Nokia may terminate the Agreement at any time immediately upon written notice by Nokia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party.

Upon termination of the Licenses, Licensee shall return to Nokia all copies of Licensed Software that were supplied by Nokia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Nokia a written confirmation that this has occurred.

13.4 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination
of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

13.5 Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement (“Non-Disclosure Agreement”), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee’s purchase order shall apply unless expressly accepted by Nokia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6 Payment and Taxes

If credit has been extended to Licensee by Nokia, all payments under this Agreement are due within thirty (30) days of the date Nokia mails its invoice to Licensee. If Nokia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Nokia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7 Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A “Force Majeure” event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8 Notices

Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.
Notices to Nokia shall be given to:

Nokia, Inc.
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Redwood City, CA 94065 U.S.A.
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2006-Jan-27

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glennrp at users.sourceforge.net
September 10, 2009
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implementation of MCS (Mellor-Crummey/Scott) locks.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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*/
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Agreement version 1.3

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Licensee may purchase additional Support and Updates following the Initial Term at Nokia's terms and conditions applicable at the time of renewal.

12. CONFIDENTIALITY

Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.
“Confidential Information” shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

13.1. Marketing

Nokia may include Licensee's company name and logo in a publicly available list of Nokia customers and in its public communications.

13.2. No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Nokia, which shall not be unreasonably withheld.

13.3. Termination

Nokia may terminate the Agreement at any time immediately upon written notice by Nokia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party.

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13.4. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the
following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for material breach.

13.5. Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Nokia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6. Payment and Taxes

If credit has been extended to Licensee by Nokia, all payments under this Agreement are due within thirty (30) days of the date Nokia mails its invoice to Licensee. If Nokia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Nokia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7. Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8. Notices

Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Copyright FAQ
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1. I don't understand the resale restriction... What gives?

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

   Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.
3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

   Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

   Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

   This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and subsituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.
PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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Version 3, 29 June 2007

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1.477 hadoop-mapreduce-client-shuffle 2.7.4

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org.eclipse.jetty.toolchain:jetty-schemas

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*/

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

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1.479 commons-beanutils 1.7.0

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/collections/BufferUnderflowException.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/LazyDynaMap.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/LazyDynaBean.java
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ResultSetDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/AbstractArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/DoubleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/LongLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BasicDynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ContextClassLoaderLocal.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/SqlTimeLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/DateLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/DoubleArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/FloatLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/BigDecimalConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/converters/SqlDateLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/IDBCDynaclass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/ConvertingWrapDynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/WrapDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/MappedPropertyDescriptor.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/SqlTimeConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/FloatConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/DynaClass.java
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/BeanUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/LongConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/CharacterArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/BooleanConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/BooleanArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/LongArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/StringConverter.java

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/WrapDynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/MutableDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/NestedNullException.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/URLConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/converters/SqlDateConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/converters/BigIntegerLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/converters/ShortArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/converters/ShortConverter.java
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/converters/SqlTimestampConverter.java
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/converters/LocalBeanUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/converters/LocaleBeanUtils.java
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/DynaProperty.java
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

DESCRIPTION

Sys::Syslog is an interface to the UNIX syslog(3) program. Call syslog() with a string priority and a list of printf() args just like syslog(3).

INSTALLATION

To install this module, run the following commands:

   $ perl Makefile.PL
   $ make
   $ make test
   $ make install

An ANSI-compliant compiler is required to compile the extension.

Sys::Syslog should work on any Perl since 5.6.0. This module is regularly compiled and tested by the CPAN Testers on various combinations of Perl and operating systems.

See also the corresponding CPAN Testers page:
   http://testers.cpan.org/show/Sys-Syslog.html

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

   perldoc Sys::Syslog

You can also look for information at:

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=head1 NAME

Sys::Syslog::Win32 - Win32 support for Sys::Syslog

=head1 DESCRIPTION

This module is a back-end plugin for Sys::Syslog, for supporting the Win32 event log. It is not expected to be directly used by any module other than Sys::Syslog therefore it's API may change at any time and no warranty is made with regards to backward compatibility. You Have Been Warned.

=head1 SEE ALSO

L<Sys::Syslog>

=head1 AUTHORS

SE<eacute>bastien Aperghis-Tramoni and Yves Orton

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=cut
=head1 NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

=head1 VERSION

This is the documentation of version 0.33

=head1 SYNOPSIS

use Sys::Syslog;                        # all except setlogsock()
use Sys::Syslog qw(:standard :macros);  # standard functions & macros

    openlog($ident, $logopt, $facility);    # don't forget this
    syslog($priority, $format, @args);
    $oldmask = setlogmask($mask_priority);
    closelog();

=head1 DESCRIPTION

C<Sys::Syslog> is an interface to the UNIX C<syslog(3)> program.  
Call C<syslog()> with a string priority and a list of C<printf()> args  
just like C<syslog(3)>.

=head1 EXPORTS

C<Sys::Syslog> exports the following C<Exporter> tags:

=over 4

=item *

C:<standard> exports the standard C<syslog(3)> functions:

    openlog closelog setlogmask syslog

=item *

C:<extended> exports the Perl specific functions for C<syslog(3)>:

    setlogsock
C<:macros> exports the symbols corresponding to most of your C<syslog(3)> macros and the C<LOG_UPTO()> and C<LOG_MASK()> functions. See L<"CONSTANTS"> for the supported constants and their meaning.

By default, C<Sys::Syslog> exports the symbols from the C<:standard> tag.

=head1 FUNCTIONS

=over 4

=item B<openlog($ident, $logopt, $facility)>

Opens the syslog. C<$ident> is prepended to every message. C<$logopt> contains zero or more of the options detailed below. C<$facility> specifies the part of the system to report about, for example C<LOG_USER> or C<LOG_LOCAL0>: see L<"Facilities"> for a list of well-known facilities, and your C<syslog(3)> documentation for the facilities available in your system. Check L<"SEE ALSO"> for useful links. Facility can be given as a string or a numeric macro.

This function will croak if it can’t connect to the syslog daemon.

Note that C<openlog()> now takes three arguments, just like C<openlog(3)>. B<You should use C<openlog()> before calling C<syslog()>.>

B<Options>

=over 4

=item *

C<:cons> - This option is ignored, since the failover mechanism will drop down to the console automatically if all other media fail.

=item *

C<ndelay> - Open the connection immediately (normally, the connection is opened when the first message is logged).
C<noeol> - When set to true, no end of line character (C\n) will be appended to the message. This can be useful for some buggy syslog daemons.

=item *

C<nofatal> - When set to true, C<openlog()> and C<syslog()> will only emit warnings instead of dying if the connection to the syslog can't be established.

=item *

C<nonul> - When set to true, no C<NUL> character (C\0) will be appended to the message. This can be useful for some buggy syslog daemons.

=item *

C<nowait> - Don't wait for child processes that may have been created while logging the message. (The GNU C library does not create a child process, so this option has no effect on Linux.)

=item *

C<perror> - Write the message to standard error output as well to the system log (added in C<Sys::Syslog> 0.22).

=item *

C<pid> - Include PID with each message.

=back

B<Examples>

Open the syslog with options C<ndelay> and C<pid>, and with facility C<LOCAL0>:

openlog($name, "ndelay,pid", "local0");

Same thing, but this time using the macro corresponding to C<LOCAL0>:

openlog($name, "ndelay,pid", LOG_LOCAL0);

=item B<syslog($priority, $message)>

=item B<syslog($priority, $format, @args)>

If C<$priority> permits, logs C<$message> or C<printf($format, @args)>
with the addition that C<$m> in $message or C<$format> is replaced with C"$!" (the latest error message).

C<$priority> can specify a level, or a level and a facility. Levels and facilities can be given as strings or as macros. When using the C<eventlog> mechanism, priorities C<DEBUG> and C<INFO> are mapped to event type C<informational>, C<NOTICE> and C<WARNING> to C<warning> and C<ERR> to C<EMERG> to C<error>.

If you didn't use C<openlog()> before using C<syslog>(), C<syslog()> will try to guess the C<$ident> by extracting the shortest prefix of C<$format> that ends in a C<"::">.

**Examples**

```perl
# informational level
syslog("info", $message);
syslog(LOG_INFO, $message);

# information level, Local0 facility
syslog("info|local0", $message);
syslog(LOG_INFO|LOG_LOCAL0, $message);
```

=back

=item B<Note>

C<Sys::Syslog> version v0.07 and older passed the C<$message> as the formatting string to C<sprintf()> even when no formatting arguments were provided. If the code calling C<syslog()> might execute with older versions of this module, make sure to call the function as C<syslog($priority, "%s", $message)> instead of C<syslog($priority, $message)>.

This protects against hostile formatting sequences that might show up if $message contains tainted data.

=back

=item B<setlogmask($mask_priority)> 

Sets the log mask for the current process to C<$mask_priority> and returns the old mask. If the mask argument is 0, the current log mask is not modified. See L<"Levels"> for the list of available levels.
You can use the C<LOG_UPTO()> function to allow all levels up to a given priority (but it only accept the numeric macros as arguments).

**Examples**
Only log errors:

    setlogmask( LOG_MASK(LOG_ERR) );

Log everything except informational messages:

    setlogmask( ~(LOG_MASK(LOG_INFO)) );

Log critical messages, errors and warnings:

    setlogmask( LOG_MASK(LOG_CRIT) 
               | LOG_MASK(LOG_ERR) 
               | LOG_MASK(LOG_WARNING) );

Log all messages up to debug:

    setlogmask( LOG_UPTO(LOG_DEBUG) );

=item B<setlogsock()>

Sets the socket type and options to be used for the next call to C<openlog()> or C<syslog()>. Returns true on success, C<undef> on failure.

Being Perl-specific, this function has evolved along time. It can currently be called as follow:

=over

=item *

C<setlogsock($sock_type)>

=item *

C<setlogsock($sock_type, $stream_location)> (added in Perl 5.004_02)

=item *

C<setlogsock($sock_type, $stream_location, $sock_timeout)> (added in C<Sys::Syslog> 0.25)

=item *

C<setlogsock(%options)> (added in C<Sys::Syslog> 0.28)

=back
The available options are:

- **type** - equivalent to `$sock_type`, selects the socket type (or "mechanism"). An array reference can be passed to specify several mechanisms to try, in the given order.

- **path** - equivalent to `$stream_location`, sets the stream location. Defaults to standard Unix location, or `PATH_LOG`.

- **timeout** - equivalent to `$sock_timeout`, sets the socket timeout in seconds. Defaults to 0 on all systems except Mac OS X where it is set to 0.25 sec.

- **host** - sets the hostname to send the messages to. Defaults to the local host.

- **port** - sets the TCP or UDP port to connect to. Defaults to the first standard syslog port available on the system.

The available mechanisms are:

- **native** - use the native C functions from your `syslog(3)` library (added in `Sys::Syslog` 0.15).

- **eventlog** - send messages to the Win32 events logger (Win32 only; added in `Sys::Syslog` 0.19).
### C<"tcp"> - connect to a TCP socket, on the C<syslog/tcp> or C<syslogng/tcp> service. See also the C<host>, C<port> and C<timeout> options.

### C<"udp"> - connect to a UDP socket, on the C<syslog/udp> service. See also the C<host>, C<port> and C<timeout> options.

### C<"inet"> - connect to an INET socket, either TCP or UDP, tried in that order. See also the C<host>, C<port> and C<timeout> options.

### C<"unix"> - connect to a UNIX domain socket (in some systems a character special device). The name of that socket is given by the C<path> option or, if omitted, the value returned by the C<_PATH_LOG> macro (if your system defines it), F</dev/log> or F</dev/conslog>, whichever is writable.

### C<"stream"> - connect to the stream indicated by the C<path> option, or, if omitted, the value returned by the C<_PATH_LOG> macro (if your system defines it), F</dev/log> or F</dev/conslog>, whichever is writable. For example Solaris and IRIX system may prefer C<"stream"> instead of C<"unix">.

### C<"pipe"> - connect to the named pipe indicated by the C<path> option, or, if omitted, to the value returned by the C<_PATH_LOG> macro (if your system defines it), or F</dev/log> (added in C<Sys::Syslog> 0.21). HP-UX is a system which uses such a named pipe.

### C<"console"> - send messages directly to the console, as for the C<"cons"> option of C<openlog()>.

The default is to try C<native>, C<tcp>, C<udp>, C<unix>, C<pipes>, C<stream>, C<console>.
Under systems with the Win32 API, C<eventlog> will be added as the first mechanism to try if C<Win32::EventLog> is available.
Giving an invalid value for C<$sock_type> will C<croak>.

B<Examples>

Select the UDP socket mechanism:

    setlogsock("udp");

Send messages using the TCP socket mechanism on a custom port:

    setlogsock( { type => "tcp", port => 2486 } );

Send messages to a remote host using the TCP socket mechanism:

    setlogsock( { type => "tcp", host => $loghost } );

Try the native, UDP socket then UNIX domain socket mechanisms:

    setlogsock(["native", "udp", "unix)];

=over

=item B<Note>

Now that the "native" mechanism is supported by C<Sys::Syslog> and selected by default, the use of the C<setlogsock()> function is discouraged because other mechanisms are less portable across operating systems. Authors of modules and programs that use this function, especially its cargo-cult form C<setlogsock("unix")>, are advised to remove any occurrence of it unless they specifically want to use a given mechanism (like TCP or UDP to connect to a remote host).

=back

=item B<closelog()>

Closes the log file and returns true on success.

=back

=head1 THE RULES OF SYS::SYSLOG

I<The First Rule of Sys::Syslog is:>
You do not call C<setlogsock>.

I<The Second Rule of Sys::Syslog is:>
You B<do not> call C<setlogsock>. 
The Third Rule of Sys::Syslog is:
The program crashes, C<die>s, calls C<closelog>, the log is over.

The Fourth Rule of Sys::Syslog is:
One facility, one priority.

The Fifth Rule of Sys::Syslog is:
One log at a time.

The Sixth Rule of Sys::Syslog is:
No C<syslog> before C<openlog>.

The Seventh Rule of Sys::Syslog is:
Logs will go on as long as they have to.

The Eighth, and Final Rule of Sys::Syslog is:
If this is your first use of Sys::Syslog, you must read the doc.

=head1 EXAMPLES

An example:

    openlog($program, 'cons,pid', 'user');
    syslog('info', '%s', 'this is another test');
    syslog('mail|warning', 'this is a better test: %d', time);
    closelog();

    syslog('debug', 'this is the last test');

Another example:

    openlog("$program $", 'ndelay', 'user');
    syslog('notice', 'fooprogram: this is really done');

Example of use of C<%m>:

    $! = 55;
    syslog('info', 'problem was %m');  # %m == $! in syslog(3)

Log to UDP port on C<$remotehost> instead of logging locally:

    setlogsock("udp", $remotehost);
    openlog($program, 'ndelay', 'user');
    syslog('info', 'something happened over here');
# CONSTANTS

## Facilities

- over 4

  - C<LOG_AUDIT> - audit daemon (IRIX); falls back to C<LOG_AUTH>

  - C<LOG_AUTH> - security/authorization messages

  - C<LOG_AUTHPRIV> - security/authorization messages (private)

  - C<LOG_CONSOLE> - C</dev/console> output (FreeBSD); falls back to C<LOG_USER>

  - C<LOG_CRON> - clock daemons (B<cron> and B<at>)

  - C<LOG_DAEMON> - system daemons without separate facility value

  - C<LOG_FTP> - FTP daemon

  - C<LOG_KERN> - kernel messages

  - C<LOG_INSTALL> - installer subsystem (Mac OS X); falls back to C<LOG_USER>

  - C<LOG_LAUNCHD> - launchd - general bootstrap daemon (Mac OS X); falls back to C<LOG_DAEMON>
C<LOG_LFMT> - logalert facility; falls back to C<LOG_USER>

=Citem *=

C<LOG_LOCAL0> through C<LOG_LOCAL7> - reserved for local use

=Citem *=

C<LOG_LPR> - line printer subsystem

=Citem *=

C<LOG_MAIL> - mail subsystem

=Citem *=

C<LOG_NETINFO> - NetInfo subsystem (Mac OS X); falls back to C<LOG_DAEMON>

=Citem *=

C<LOG_NEWS> - USENET news subsystem

=Citem *=

C<LOG_NTP> - NTP subsystem (FreeBSD, NetBSD); falls back to C<LOG_DAEMON>

=Citem *=

C<LOG_RAS> - Remote Access Service (VPN / PPP) (Mac OS X); falls back to C<LOG_AUTH>

=Citem *=

C<LOG_REMOTEAUTH> - remote authentication/authorization (Mac OS X); falls back to C<LOG_AUTH>

=Citem *=

C<LOG_SECURITY> - security subsystems (firewalling, etc.) (FreeBSD); falls back to C<LOG_AUTH>

=Citem *=

C<LOG_SYSLOG> - messages generated internally by B<syslogd>

=Citem *=
C<LOG_USER> (default) - generic user-level messages

C<LOG_UUCP> - UUCP subsystem

C<LOG_EMERG> - system is unusable

C<LOG_ALERT> - action must be taken immediately

C<LOG_CRIT> - critical conditions

C<LOG_ERR> - error conditions

C<LOG_WARNING> - warning conditions

C<LOG_NOTICE> - normal, but significant, condition

C<LOG_INFO> - informational message

C<LOG_DEBUG> - debug-level message
DIAGNOSTICS

Invalid argument passed to setlogsock

You gave setlogsock() an invalid value for $sock_type.

eventlog passed to setlogsock, but no Win32 API available

You asked setlogsock() to use the Win32 event logger but the operating system running the program isn't Win32 or does not provides Win32 compatible facilities.

no connection to syslog available

syslog() failed to connect to the specified socket.

stream passed to setlogsock, but %s is not writable

You asked setlogsock() to use a stream socket, but the given path is not writable.

stream passed to setlogsock, but could not find any device

You asked setlogsock() to use a stream socket, but didn't provide a path, and Sys::Syslog was unable to find an appropriate one.

tcp passed to setlogsock, but tcp service unavailable

You asked setlogsock() to use a TCP socket, but the service is not available on the system.

expecting argument %s

You forgot to give syslog() the indicated argument.

invalid level/facility: %s

You specified an invalid level or facility.

too many levels given: %s

You specified too many levels.

too many facilities given: %s

You specified too many facilities.
=item C<syslog: level must be given>

B<(F)> You forgot to specify a level.

=item C<udp passed to setlogsock, but udp service unavailable>

B<(W)> You asked C<setlogsock()> to use a UDP socket, but the service
is not available on the system.

=item C<unix passed to setlogsock, but path not available>

B<(W)> You asked C<setlogsock()> to use a UNIX socket, but C<Sys::Syslog>
was unable to find an appropriate an appropriate device.

=back

=head1 HISTORY

C<Sys::Syslog> is a core module, part of the standard Perl distribution
since 1990. At this time, modules as we know them didn't exist, the
Perl library was a collection of F<.pl> files, and the one for sending
syslog messages with was simply F<lib/syslog.pl>, included with Perl 3.0.
It was converted as a module with Perl 5.0, but had a version number
only starting with Perl 5.6. Here is a small table with the matching
Perl and C<Sys::Syslog> versions.

<table>
<thead>
<tr>
<th>Sys::Syslog</th>
<th>Perl</th>
</tr>
</thead>
<tbody>
<tr>
<td>undef</td>
<td>5.0.0 ~ 5.5.4</td>
</tr>
<tr>
<td>0.01</td>
<td>5.6.*</td>
</tr>
<tr>
<td>0.03</td>
<td>5.8.0</td>
</tr>
<tr>
<td>0.04</td>
<td>5.8.1, 5.8.2, 5.8.3</td>
</tr>
<tr>
<td>0.05</td>
<td>5.8.4, 5.8.5, 5.8.6</td>
</tr>
<tr>
<td>0.06</td>
<td>5.8.7</td>
</tr>
<tr>
<td>0.13</td>
<td>5.8.8</td>
</tr>
<tr>
<td>0.22</td>
<td>5.10.0</td>
</tr>
<tr>
<td>0.27</td>
<td>5.8.9, 5.10.1 ~ 5.14.2</td>
</tr>
<tr>
<td>0.29</td>
<td>5.16.0, 5.16.1</td>
</tr>
</tbody>
</table>

=head1 SEE ALSO

=head2 Other modules

L<Log::Log4perl> - Perl implementation of the Log4j API
L<Log::Dispatch> - Dispatches messages to one or more outputs

L<Log::Report> - Report a problem, with exceptions and language support

=head2 Manual Pages

L<syslog(3)>

SUSv3 issue 6, IEEE Std 1003.1, 2004 edition,
L<http://www.opengroup.org/onlinepubs/000095399/basedefs/syslog.h.html>

GNU C Library documentation on syslog,

Solaris 10 documentation on syslog,
L<http://docs.sun.com/app/docs/doc/816-5168/syslog-3c?a=view>

Mac OS X documentation on syslog,

IRIX 6.5 documentation on syslog,
L<http://techpubs.sgi.com/library/tpl/cgi-bin/getdoc.cgi?coll=0650&db=man&fname=3c+syslog>

AIX 5L 5.3 documentation on syslog,

HP-UX 11i documentation on syslog,
L<http://docs.hp.com/en/B2355-60130/syslog.3C.html>

Tru64 5.1 documentation on syslog,

Stratus VOS 15.1,

=head2 RFCs

-- Please note that this is an informational RFC, and therefore does not specify a standard of any kind.

I<RFC 3195 - Reliable Delivery for syslog>, L<http://www.faqs.org/rfcs/rfc3195.html>

=head2 Articles

I<Syslogging with Perl>, L<http://lexington.pm.org/meetings/022001.html>
Event Log


AUTHORS & ACKNOWLEDGEMENTS

Tom Christiansen E<lt>F<tchrist (at) perl.com>E<gt> and Larry Wall E<lt>F<larry (at) wall.org>E<gt>.

UNIX domain sockets added by Sean Robinson E<lt>F<robinson_s (at) sc.maricopa.edu>E<gt> with support from Tim Bunce E<lt>F<Tim.Bunce (at) ig.co.uk>E<gt> and the C< perl5-porters > mailing list.

Dependency on F<syslog.ph > replaced with XS code by Tom Hughes E<lt>F<tom (at) compton.nu>E<gt>.

Code for C<constant()> s regenerated by Nicholas Clark E<lt>F<nick (at) ccl4.org>E<gt>.

Failover to different communication modes by Nick Williams E<lt>F<Nick.Williams (at) morganstanley.com>E<gt>.

Extracted from core distribution for publishing on the CPAN by SE<eacute>bastien Aperghis-Tramoni E<lt>sebastien (at) aperghis.netE<gt>.

XS code for using native C functions borrowed from C<L<Unix::Syslog>>, written by Marcus Harnisch E<lt>F<marcus.harnisch (at) gmx.net>E<gt>.

Yves Orton suggested and helped for making C<Sys::Syslog> use the native event logger under Win32 systems.

Jerry D. Hedden and Reini Urban provided greatly appreciated help to debug and polish C<Sys::Syslog> under Cygwin.

BUGS

Please report any bugs or feature requests to C<bug-sys-syslog (at) rt.cpan.org >, or through the web interface at L<http://rt.cpan.org/Public/Dist/Display.html?Name=Sys-Syslog>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

SUPPORT
You can find documentation for this module with the perldoc command.

    perldoc Sys::Syslog

You can also look for information at:

=over 4

=item * AnnoCPAN: Annotated CPAN documentation

L<http://annocpan.org/dist/Sys-Syslog>

=item * CPAN Ratings

L<http://cpanratings.perl.org/d/Sys-Syslog>

=item * RT: CPAN's request tracker


=item * Search CPAN

L<http://search.cpan.org/dist/Sys-Syslog/>

=item * MetaCPAN

L<https://metacpan.org/module/Sys::Syslog>

=item * Perl Documentation

L<http://perldoc.perl.org/Sys/Syslog.html>

=back

=head1 COPYRIGHT

Copyright (C) 1990-2012 by Larry Wall and others.

=head1 LICENSE

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

=cut

=begin comment
Notes for the future maintainer (even if it's still me..)

Using Google Code Search, I search who on Earth was relying on $host being public. It found 5 hits:

* First was inside Indigo Star Perl2exe documentation. Just an old version of Sys::Syslog.

* One real hit was inside DalWeathDB, a weather related program. It simply does a

  $Sys::Syslog::host = '127.0.0.1';

  - L<http://www.gallistel.net/nparker/weather/code/>

* Two hits were in TPC, a fax server thingy. It does a

  $Sys::Syslog::host = $TPC::LOGHOST;

  but also has this strange piece of code:

  # work around perl5.003 bug
  sub Sys::Syslog::hostname { }

  I don't know what bug the author referred to.

  - L<http://www.tpc.int/>

* Last hit was in Filefix, which seems to be a FIDOnet mail program (!). This one does not use $host, but has the following piece of code:

  sub Sys::Syslog::hostname
  {
    use Sys::Hostname;
    returnhostname;
  }

  I guess this was a more elaborate form of the previous bit, maybe because of a bug in Sys::Syslog back then?

Links
-----
Linux Fast-STREAMS
- L<http://www.openss7.org/streams.html>

II12021: SYSLOGD HOWTO TCPIPINFO (z/OS, OS/390, MVS)

Getting the most out of the Event Viewer

Log events to the Windows NT Event Log with JNI

=end comment

Found in path(s):
* /opt/cola/permits/1129937467_1612410136.53/0/perl-Sys-Syslog-0.33-3.el7-1.src.rpm-cosi-expand-archive-
  PAi83NiC/Sys-Syslog-0.33.tar.gz-cosi-expand-archive-IuJQJWCr/Sys-Syslog-0.33/Syslog.pm
No license file was found, but licenses were detected in source scan.

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

   ppport.h -- Perl/Pollution/Portability Version 3.08

   Automatically created by Devel::PPPort running under
   perl 5.008005 on Thu Jun  8 00:58:19 2006.

   Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
   includes in parts/inc/ instead.

   Use 'perldoc ppport.h' to view the documentation below.

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

   SKIP

   =pod

   =head1 NAME

   ppport.h - Perl/Pollution/Portability version 3.08

   =head1 SYNOPSIS

   perl ppport.h [options] [source files]
Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h (this, obviously, cannot be undone)

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.
If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.
Strip all script and documentation functionality from \texttt{ppport.h}. This reduces the size of \texttt{ppport.h} dramatically and may be useful if you want to include \texttt{ppport.h} in smaller modules without increasing their distribution size too much.

Lists the API elements for which compatibility is provided by \texttt{ppport.h}. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

Lists the API elements that are known not to be supported by \texttt{ppport.h} and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching \texttt{\textless name\textgreater}. If \texttt{\textless name\textgreater} is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

\begin{verbatim}
perl ppport.h --list-provided
\end{verbatim}

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the \texttt{C<PL_>} prefix is deprecated. Also, some API functions used to have a \texttt{C<perl_>} prefix. Using this form is
also deprecated. You can safely use the supported API, as F<pppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<pppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

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<tr>
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<td>grok_numeric_radix()</td>
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<tr>
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</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<\$DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<\$DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```bash
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```bash
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```bash
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```bash
perl ppport.h --diff='diff -C 10'
```
To display portability information for the `newSVpvn` function, use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```
perl ppport.h --api-info=_nomg$/
```

to display portability information for all `C<_nomg>` functions or

```
perl ppport.h --api-info=/\ /
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `ppport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report using the CPAN Request Tracker at `http://rt.cpan.org/`.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.
use strict;

my %opt = (  
  quiet => 0,  
  diag => 1,  
  hints => 1,  
  changes => 1,  
  cplusplus => 0,  
  filter => 1,  
  strip => 0,  
);

my($ppport) = $0 =~ /\([\w.]+)\)/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = \[ \t\];             # horizontal whitespace

my($ppport) = $0 =~ /\([\w.]+)\)/;
my($LF) = '(?:\r\n|\[\r\n\])';   # line feed
my($HS) = \[ \t\];             # horizontal whitespace

eval {  
  require Getopt::Long;  
  Getopt::Long::GetOptions(%opt, qw(  
    help quiet diag! filter! hints! changes! cplusplus strip  
  patch=s copy=s diff=s compat-version=s  
  ));

  $opt{help} &&idUserHelp();  
  $opt{quiet} && $quiet = 1;  
  $opt{diag} && $diagnostic = 1;  
  $opt{filter} && $filter = 1;  
  $opt{hint} && $hints = 1;  
  $opt{changes} && $changes = 1;  
  $opt{cplusplus} && $cplusplus = 1;  
  $opt{strip} && $strip = 1;  
  $opt{patch} && $patch = 1;  
  $opt{copy} && $copy = 1;  
  $opt{diff} && $diff = 1;  
  $opt{compat-version} && $compat_version = 1;  
  $opt{version} && $version = 1;  
  $opt{version-const} && $version_const = 1;  

  }"
if ($@ and grep /^-\%/l, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options\n";
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: $opt{'compat-version'}\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

# Never use C comments in this file!!!!!
my $ccs = '/\.*';
my $cce = '*\.'/;
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^\w+\|[^\|]*\|[^\|]*\|\w*/{ ( $1 => 
            ($2 ? ( base => $2 ) : ()),
            ($3 ? ( todo => $3 ) : ()),
            (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
            (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
            (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
        ) } qw(
    AvFILLp[5.004050]|p
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    CopFILEGV_set[5.006000]|p
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}

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else {
  $hint = "";
}

$hint = $1 if m{^\s*$rcce\$Hint:\s+\(w+\)\s*$};

$replace = $1 if m{^\s*$rcce\$Replace:\s+(\d+)\s+\$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)\s+\(\w+\)\s+\$rcce\s*$};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)\s+\(\w+\)\s+\$rcce\s*$};
$replace{$1} = $2 if m{^\s*\$rcce\s+Replace \(\w+\) with \(\w+\)\s+\$rcce\s*$};

if (m{^\s*\$rcce\w+\(\w+\)\s+depends\s+\(\w*\,\w+\)\s+\$rcce\s*$}) {
  push @{$depends{$1}}, map { s/\s+///g; $_ } split /,/, $2;
}

$need{$1} = 1 if m{^\#if\s+defined\( NEED_\(\w+\)/?\:_GLOBAL\)\)\s*$};
}

if (exists $opt{\'api-info\'}) {
  my $f;
  my $count = 0;
  my $match = $opt{\'api-info\'} =~ m!/\w+/$! ? $1 : "^\Q$opt{\'api-info\'}\E";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo\n";
      print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
      print "Depends on: \', join(', ', @{$depends{$f}}), '\n" if exists $depends{$f};
      print "Shints\$f\n" if exists $hints{$f};
      $info++;
    }
    unless ($info) {
      print "No portability information available\n";
    }
    $count++;
  }
  if ($count > 0) {
    print "\n";
  }
} else {
print "Found no API matching '$opt{'api-info'}'.\n";
}
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {

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warning("Skipping the following files (use --nofilter to avoid this):
| @files = @in;
}

unless (@files) {
    die "No input files given!\n";
}

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
        next;
    }

    info("Scanning $filename ...\n");

    my $c = do { local $/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    # temporarily remove C comments from the code
    my @ccom;
    $c =~ s{
        (#\n
        \n
        ) #
    }{
        defined $2 and push @ccom, $2;
        defined $1 ? $1 : "$ccs$#ccom$cce";
    }egsx;

    ...
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /\*.*include.*\\Q$ppport\\E/);

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /Ab(\?:Perl_)\(?($match)\)?/b) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
  }
  if (exists $API{$func}{provided}) {
    if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
      my @deps = rec_depend($func);
      if (@deps) {
        $file{uses_deps}{$func} = \@deps;
        for (@deps) {
          $file{uses}{$_} = 0 unless exists $file{uses}{$_};
        }
      }
    }
    for ($func, @deps) {
      if (exists $need{$_}) {
        $file{needs}{$_} = 'static';
      }
    }
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
    if ($c =~ /$func\b/) {
      $file{uses_todo}{$func}++;
    }
  }
}

while ($c =~ /^\$HS*#define\$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  } else {
    warning("Possibly wrong #define $1 in $filename");
  }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    # Code continues...
  }
}
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}

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for $func (sort keys %{$file{uses_replace}})) {
    warning("Uses $func instead of $replace{$func}" set);
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses}})) {
    next unless $file{uses}[$func]; # if it's only a dependency
    if (exists $file{uses_deps}[$func]) {
        diag("Uses $func, which depends on ", join(’,’, @{$file{uses_deps}[$func]}));
    }
    elsif (exists $replace{$func}) {
        warning("Uses $func instead of $replace{$func}" set);
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }
    else {
        diag("Uses $func");
    }
    hint($func);
}

for $func (sort keys %{$file{uses_todo}})) {
    warning("Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}})) {
    my $message = ";
    if (not exists $file{uses}[$func]) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}})) {
    my $message = ";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}[$func]) {
        if ($file{needs}[$func] eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
    }
}
elsif ($file{needs}{$func} eq 'static') {
    $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
}
}

if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : '';
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files @{$global{needs}{$func}} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix
";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/$HS*#$HS*define$HS+NEED_\w+/.*$1$pp/m)
            || ($c =~ s/$HS*#$HS*include.*XSUB.*\s*/\s*$1$pp/m)
            || ($c =~ s/$1$pp/);
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include "$ppport";
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : ';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      } else {
        error("Cannot open '$newfile' for writing: $!");
      }
    } elsif (exists $opt{patch} || $opt{changes}) {
      if (exists $opt{patch}) {
        unless ($patch_opened) {
          if (open PATCH, ">$opt{patch}") {
            "
          } else {
            error("Cannot open '$patch' for writing: $!");
          }
        }
      } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
          unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
              "
            } else {
              error("Cannot open '$patch' for writing: $!");
            }
          }
        } else {
          if ($opt{changes}) {
            warning("Uses $opt{changes}, which is not portable");
          } elsif (exists $opt{patch}) {
            warning("Uses $opt{patch}, which is not portable");
          } else {
            warning("Uses both $opt{changes} and $opt{patch}, which is not portable");
          }
        }
      } else {
        warning("Uses neither $opt{changes} nor $opt{patch}, which is not portable");
      }
      if (exists $opt{patch}) {
        if ($patch_opened) {
          close PATCH;
        }
      }
    }
  } elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          "
        } else {
          error("Cannot open '$patch' for writing: $!");
        }
      }
    } else {
      if ($opt{changes}) {
        warning("Uses $opt{changes}, which is not portable");
      } elsif (exists $opt{patch}) {
        warning("Uses $opt{patch}, which is not portable");
      } else {
        warning("Uses both $opt{changes} and $opt{patch}, which is not portable");
      }
    }
  }
}

else {
$patch_opened = 1;
}
else {
    error("Cannot open '$opt{patch}' for writing: $!");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}
}
mydiff(
    ^PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
        mydiff(
            ^STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;  
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }
    if (!defined $diff and can_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;
        while (<F>) {
            s/\Q$tmq\E/$file.patched/;
            $diff .= ";
        }
        close F;
        unlink $tmp;
        return $diff;
    }

    unlink $tmp;
}

else {
    error("Cannot open '$tmp' for writing: $!");
}
sub can_use
{
    eval "use @_;";
    return $@ eq "";
}

sub rec_depend
{
    my $func = shift;
    my %seen;
    return () unless exists $depends{$func};
    grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^(\d+)(\d+)\.(\d+)$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d\_]+$/) {
        die "cannot parse version '$ver'
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\/(\d+)(\d[3])(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'
        }
    }

    return ($r, $v, $s);
}

sub format_version
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+/\.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version \$ver\n";
    }
    $s /= 10;

    $ver = sprintf "%d.\%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.\%02d", $s;

    return $ver;
}

return sprintf "%d.\%d.\%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
sub hint
{
  $opt{quiet} and return;
  $opt{hints} or return;
  my $func = shift;
  exists $hints{$func} or return;
  $given_hints{$func}++ and return;
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func ---\n", $hint;
}

sub usage
{
  my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d?$HS+SYNOPSIS\s*\^(.*)\s*\^=\=ms;
  my %M = ( 'I' => '*' );
  $usage =~ s/\^\$s*perl\$s+\$\^S\^X \$0/;
  $usage =~ s/([^ ])>/$M{\$1}$/g;

  print <<ENDUSAGE;
  Usage: $usage
  See perldoc $0 for details.
ENDUSAGE
  exit 2;
}

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> };  
  $self =~ s/^$HS+Do NOT edit.*?(?=^-)//ms;
  $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
  if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort };  
    \$@ and die "Cannot require Devel::PPPort, please install\n";
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
  Sorry, but this is a stripped version of $0.

  To be able to use its original script and doc functionality,
  please try to regenerate this file using:
open OUT, ">$0" or die "cannot strip $0: $\n";
print OUT $self;
exit 0;
}

__DATA__
*/

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---
abstract: 'Perl interface to the UNIX syslog(3) calls'
author:
- 'Sebastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Sys-Syslog
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
Fcntl: 0
File::Basename: 0
File::Spec: 0
POSIX: 0
Socket: 0
Test::More: 0
XSLoader: 0
resources:
  repository: https://github.com/maddingue/Sys-Syslog.git
version: 0.33

Found in path(s):
* /opt/cola/permits/1129937467_1612410136.53/0/perl-Sys-Syslog-0.33-3.el7-1.src.rpm-cosi-expand-archive-PAi83NiC/Sys-Syslog-0.33.tar.gz-cosi-expand-archive-1uJQJWCr/Sys-Syslog-0.33/META.yml

1.484 tar 1.2.11-29.el7
1.484.1 Available under license:

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1.485 rsyslog 7.4.7 16.el7

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Section 6 states terms for distribution of such executables.

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=head1 NAME
URI - Uniform Resource Identifiers (absolute and relative)

=head1 SYNOPSIS

```perl
$u1 = URI->new("http://www.perl.com");
$u2 = URI->new("foo", "http");
$u3 = $u2->abs($u1);
$u4 = $u3->clone;
$u5 = URI->new("HTTP://WWW.perl.com:80")->canonical;

$str = $u->as_string;
$str = "$u";
```

```perl
$scheme = $u->scheme;
$opaque = $u->opaque;
$path   = $u->path;
$frag   = $u->fragment;

$u->scheme("ftp");
$u->host("ftp.perl.com");
$u->path("cpan/");
```

=head1 DESCRIPTION

This module implements the C<URI> class. Objects of this class represent "Uniform Resource Identifier references" as specified in RFC 2396 (and updated by RFC 2732).

A Uniform Resource Identifier is a compact string of characters that identifies an abstract or physical resource. A Uniform Resource Identifier can be further classified as either a Uniform Resource Locator (URL) or a Uniform Resource Name (URN). The distinction between URL and URN does not matter to the C<URI> class interface. A "URI-reference" is a URI that may have additional information attached in the form of a fragment identifier.

An absolute URI reference consists of three parts: a I<scheme>, a I<scheme-specific part> and a I<fragment> identifier. A subset of URI references share a common syntax for hierarchical namespaces. For these, the scheme-specific part is further broken down into I<authority>, I<path> and I<query> components. These URIs can also take the form of relative URI references, where the scheme (and usually also the authority) component is missing, but implied by the context of the URI reference. The three forms of URI reference syntax are summarized as follows:

```plaintext
<scheme>:<scheme-specific-part>#<fragment>
<scheme>://<authority><path>?<query>#<fragment>
```
The components into which a URI reference can be divided depend on the scheme. The `URI` class provides methods to get and set the individual components. The methods available for a specific `URI` object depend on the scheme.

=head1 CONSTRUCTORS

The following methods construct new `URI` objects:

=item $uri = URI->new( $str )

=item $uri = URI->new( $str, $scheme )

Constructs a new URI object. The string representation of a URI is given as argument, together with an optional scheme specification. Common URI wrappers like "" and «», as well as leading and trailing white space, are automatically removed from the $str argument before it is processed further.

The constructor determines the scheme, maps this to an appropriate URI subclass, constructs a new object of that class and returns it.

The $scheme argument is only used when $str is a relative URI. It can be either a simple string that denotes the scheme, a string containing an absolute URI reference, or an absolute `URI` object. If no $scheme is specified for a relative URI $str, then $str is simply treated as a generic URI (no scheme-specific methods available).

The set of characters available for building URI references is restricted (see L<URI::Escape>). Characters outside this set are automatically escaped by the URI constructor.

=item $uri = URI->new_abs( $str, $base_uri )

Constructs a new absolute URI object. The $str argument can denote a relative or absolute URI. If relative, then it is absolutized using $base_uri as base. The $base_uri must be an absolute URI.

=item $uri = URI::file->new( $filename )

=item $uri = URI::file->new( $filename, $os )
Constructs a new I<file> URI from a file name. See L<URI::file>.

=item $uri = URI::file->new_abs( $filename )

=item $uri = URI::file->new_abs( $filename, $os )

Constructs a new absolute I<file> URI from a file name. See L<URI::file>.

=item $uri = URI::file->cwd

Returns the current working directory as a I<file> URI. See L<URI::file>.

=item $uri->clone

Returns a copy of the $uri.

=back

=head1 COMMON METHODS

The methods described in this section are available for all C<URI> objects.

Methods that give access to components of a URI always return the old value of the component. The value returned is C<undef> if the component was not present. There is generally a difference between a component that is empty (represented as C<"">) and a component that is missing (represented as C<undef>). If an accessor method is given an argument, it updates the corresponding component in addition to returning the old value of the component. Passing an undefined argument removes the component (if possible). The description of each accessor method indicates whether the component is passed as an escaped (percent-encoded) or an unescaped string. A component that can be further divided into sub-parts are usually passed escaped, as unescaping might change its semantics.

The common methods available for all URI are:

=over 4

=item $uri->scheme

=item $uri->scheme( $new_scheme )

Sets and returns the scheme part of the $uri. If the $uri is relative, then $uri->scheme returns C<undef>. If called with an
argument, it updates the scheme of $uri, possibly changing the
class of $uri, and returns the old scheme value. The method croaks
if the new scheme name is illegal; a scheme name must begin with a
letter and must consist of only US-ASCII letters, numbers, and a few
special marks: ".", "+", ",". This restriction effectively means
that the scheme must be passed unescaped. Passing an undefined
argument to the scheme method makes the URI relative (if possible).

Letter case does not matter for scheme names. The string
returned by $uri->scheme is always lowercase. If you want the scheme
just as it was written in the URI in its original case,
you can use the $uri->_scheme method instead.

=item $uri->opaque

=item $uri->opaque( $new_opaque )

Sets and returns the scheme-specific part of the $uri
(everything between the scheme and the fragment)
as an escaped string.

=item $uri->path

=item $uri->path( $new_path )

Sets and returns the same value as $uri->opaque unless the URI
supports the generic syntax for hierarchical namespaces.
In that case the generic method is overridden to set and return
the part of the URI between the I<host name> and the I<fragment>.

=item $uri->fragment

=item $uri->fragment( $new_frag )

Returns the fragment identifier of a URI reference
as an escaped string.

=item $uri->as_string

Returns a URI object to a plain ASCII string. URI objects are
also converted to plain strings automatically by overloading. This
means that $uri objects can be used as plain strings in most Perl
constructs.

=item $uri->as_iri

Returns a Unicode string representing the URI. Escaped UTF-8 sequences
representing non-ASCII characters are turned into their corresponding Unicode
Returns a normalized version of the URI. The rules for normalization are scheme-dependent. They usually involve lowercasing the scheme and Internet host name components, removing the explicit port specification if it matches the default port, uppercasing all escape sequences, and unescaping octets that can be better represented as plain characters.

For efficiency reasons, if the $uri is already in normalized form, then a reference to it is returned instead of a copy.

Tests whether two URI references are equal. URI references that normalize to the same string are considered equal. The method can also be used as a plain function which can also test two string arguments.

If you need to test whether two C<URI> object references denote the same object, use the '==' operator.

Returns an absolute URI reference. If $uri is already absolute, then a reference to it is simply returned. If the $uri is relative, then a new absolute URI is constructed by combining the $uri and the $base_uri, and returned.

Returns a relative URI reference if it is possible to make one that denotes the same resource relative to $base_uri. If not, then $uri is simply returned.

Returns a TRUE value if the URI is considered to point to a resource on a secure channel, such as an SSL or TLS encrypted one.
The following methods are available to schemes that use the common/generic syntax for hierarchical namespaces. The descriptions of schemes below indicate which these are. Unknown schemes are assumed to support the generic syntax, and therefore the following methods:

=over 4
=item $uri->authority
=item $uri->authority( $new_authority )

Sets and returns the escaped authority component of the $uri.

=item $uri->path
=item $uri->path( $new_path )

Sets and returns the escaped path component of the $uri (the part between the host name and the query or fragment). The path can never be undefined, but it can be the empty string.

=item $uri->path_query
=item $uri->path_query( $new_path_query )

Sets and returns the escaped path and query components as a single entity. The path and the query are separated by a "?" character, but the query can itself contain "?".

=item $uri->path_segments
=item $uri->path_segments( $segment, ... )

Sets and returns the path. In a scalar context, it returns the same value as $uri->path. In a list context, it returns the unescaped path segments that make up the path. Path segments that have parameters are returned as an anonymous array. The first element is the unescaped path segment proper; subsequent elements are escaped parameter strings. Such an anonymous array uses overloading so it can be treated as a string too, but this string does not include the parameters.

Note that absolute paths have the empty string as their first path_segment, i.e. the path C</foo/bar> have 3 path_segments; "", "foo" and "bar".
=item $uri->query

=item $uri->query( $new_query )

Sets and returns the escaped query component of the $uri.

=item $uri->query_form

=item $uri->query_form( $key1 => $val1, $key2 => $val2, ... )

=item $uri->query_form( $key1 => $val1, $key2 => $val2, ... , $delim )

=item $uri->query_form( \@key_value_pairs )

=item $uri->query_form( \@key_value_pairs, $delim )

=item $uri->query_form( \%hash )

=item $uri->query_form( \%hash, $delim )

Sets and returns query components that use the I<application/x-www-form-urlencoded> format. Key/value pairs are separated by "&", and the key is separated from the value by a "=" character.

The form can be set either by passing separate key/value pairs, or via an array or hash reference. Passing an empty array or an empty hash removes the query component, whereas passing no arguments at all leaves the component unchanged. The order of keys is undefined if a hash reference is passed. The old value is always returned as a list of separate key/value pairs. Assigning this list to a hash is unwise as the keys returned might repeat.

The values passed when setting the form can be plain strings or references to arrays of strings. Passing an array of values has the same effect as passing the key repeatedly with one value at a time. All the following statements have the same effect:

```perl
$uri->query_form(foo => 1, foo => 2);
$uri->query_form(foo => [1, 2]);
$uri->query_form( [ foo => 1, foo => 2 ]);
$uri->query_form( { foo => [1, 2] });
$uri->query_form( { foo => [1, 2] });
```

The $delim parameter can be passed as ";" to force the key/value pairs to be delimited by ";", instead of "&" in the query string. This practice is often recommended for URLs embedded in HTML or XML.
documents as this avoids the trouble of escaping the "&" character.
You might also set the $URI::DEFAULT_QUERY_FORM_DELIMITER variable to
";" for the same global effect.
The C<URI::QueryParam> module can be loaded to add further methods to
manipulate the form of a URI. See L<URI::QueryParam> for details.
=item $uri->query_keywords
=item $uri->query_keywords( $keywords, ... )
=item $uri->query_keywords( \@keywords )
Sets and returns query components that use the
keywords separated by "+" format.
The keywords can be set either by passing separate keywords directly
or by passing a reference to an array of keywords. Passing an empty
array removes the query component, whereas passing no arguments at
all leaves the component unchanged. The old value is always returned
as a list of separate words.
=back
=head1 SERVER METHODS
For schemes where the I<authority> component denotes an Internet host,
the following methods are available in addition to the generic
methods.
=over 4
=item $uri->userinfo
=item $uri->userinfo( $new_userinfo )
Sets and returns the escaped userinfo part of the
authority component.
For some schemes this is a user name and a password separated by
a colon. This practice is not recommended. Embedding passwords in
clear text (such as URI) has proven to be a security risk in almost
every case where it has been used.
=item $uri->host
=item $uri->host( $new_host )

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Sets and returns the unescaped hostname.

If the $new_host string ends with a colon and a number, then this number also sets the port.

For IPv6 addresses the brackets around the raw address is removed in the return value from $uri->host. When setting the host attribute to an IPv6 address you can use a raw address or one enclosed in brackets. The address needs to be enclosed in brackets if you want to pass in a new port value as well.

=item $uri->ihost

Returns the host in Unicode form. Any IDNA A-labels are turned into U-labels.

=item $uri->port

=item $uri->port( $new_port )

Sets and returns the port. The port is a simple integer that should be greater than 0.

If a port is not specified explicitly in the URI, then the URI scheme's default port is returned. If you don't want the default port substituted, then you can use the $uri->_port method instead.

=item $uri->host_port

=item $uri->host_port( $new_host_port )

Sets and returns the host and port as a single unit. The returned value includes a port, even if it matches the default port. The host part and the port part are separated by a colon: ":".

For IPv6 addresses the bracketing is preserved; thus $uri->new("http://[:1]/")-host_port returns "[:1]:80". Contrast this with $uri->host which will remove the brackets.

=item $uri->default_port

Returns the default port of the URI scheme to which $uri belongs. For I<http> this is the number 80, for I<ftp> this is the number 21, etc. The default port for a scheme can not be changed.

=back

=head1 SCHEME-SPECIFIC SUPPORT
Scheme-specific support is provided for the following URI schemes. For C<URI> objects that do not belong to one of these, you can only use the common and generic methods.

=item B<data>:

The I<data> URI scheme is specified in RFC 2397. It allows inclusion of small data items as "immediate" data, as if it had been included externally.

C<URI> objects belonging to the data scheme support the common methods and two new methods to access their scheme-specific components: $uri->media_type and $uri->data. See L<URI::data> for details.

=item B<file>:

An old specification of the I<file> URI scheme is found in RFC 1738. A new RFC 2396 based specification is not available yet, but file URI references are in common use.

C<URI> objects belonging to the file scheme support the common and generic methods. In addition, they provide two methods for mapping file URIs back to local file names; $uri->file and $uri->dir. See L<URI::file> for details.

=item B<ftp>:

An old specification of the I<ftp> URI scheme is found in RFC 1738. A new RFC 2396 based specification is not available yet, but ftp URI references are in common use.

C<URI> objects belonging to the ftp scheme support the common, generic and server methods. In addition, they provide two methods for accessing the userinfo sub-components: $uri->user and $uri->password.

=item B<gopher>:

The I<gopher> URI scheme is specified in <draft-murali-url-gopher-1996-12-04> and will hopefully be available as a RFC 2396 based specification.

C<URI> objects belonging to the gopher scheme support the common, generic and server methods. In addition, they support some methods for accessing gopher-specific path components: $uri->gopher_type, $uri->selector, $uri->search, $uri->string.
=item B<http>:

The I<http> URI scheme is specified in RFC 2616. The scheme is used to reference resources hosted by HTTP servers.

C<URI> objects belonging to the http scheme support the common, generic and server methods.

=item B<https>:

The I<https> URI scheme is a Netscape invention which is commonly implemented. The scheme is used to reference HTTP servers through SSL connections. Its syntax is the same as http, but the default port is different.

=item B<ldap>:

The I<ldap> URI scheme is specified in RFC 2255. LDAP is the Lightweight Directory Access Protocol. An ldap URI describes an LDAP search operation to perform to retrieve information from an LDAP directory.

C<URI> objects belonging to the ldap scheme support the common, generic and server methods as well as ldap-specific methods: $uri->dn, $uri->attributes, $uri->scope, $uri->filter, $uri->extensions. See L<URI::ldap> for details.

=item B<ldapi>:

Like the I<ldap> URI scheme, but uses a UNIX domain socket. The server methods are not supported, and the local socket path is available as $uri->un_path. The I<ldapi> scheme is used by the OpenLDAP package. There is no real specification for it, but it is mentioned in various OpenLDAP manual pages.

=item B<ldaps>:

Like the I<ldap> URI scheme, but uses an SSL connection. This scheme is deprecated, as the preferred way is to use the I<start_tls> mechanism.

=item B<mailto>:

The I<mailto> URI scheme is specified in RFC 2368. The scheme was originally used to designate the Internet mailing address of an individual or service. It has (in RFC 2368) been extended to allow setting of other mail header fields and the message body.
C<URI> objects belonging to the mailto scheme support the common methods and the generic query methods. In addition, they support the following mailto-specific methods: $uri->to, $uri->headers.

Note that the "foo@example.com" part of a mailto is I<not> the C<userinfo> and C<host> but instead the C<path>. This allows a mailto URI to contain multiple comma separated email addresses.

=item B<mms>:

The I<mms> URL specification can be found at L<http://sdp.ppona.com/>. C<URI> objects belonging to the mms scheme support the common, generic, and server methods, with the exception of userinfo and query-related sub-components.

=item B<news>:

The I<news>, I<nntp> and I<snews> URI schemes are specified in <draft-gilman-news-url-01> and will hopefully be available as an RFC 2396 based specification soon.

C<URI> objects belonging to the news scheme support the common, generic and server methods. In addition, they provide some methods to access the path: $uri->group and $uri->message.

=item B<nntp>:

See I<news> scheme.

=item B<pop>:

The I<pop> URI scheme is specified in RFC 2384. The scheme is used to reference a POP3 mailbox.

C<URI> objects belonging to the pop scheme support the common, generic and server methods. In addition, they provide two methods to access the userinfo components: $uri->user and $uri->auth

=item B<rlogin>:

An old specification of the I<rlogin> URI scheme is found in RFC 1738. C<URI> objects belonging to the rlogin scheme support the common, generic and server methods.

=item B<rtsp>:

The I<rtsp> URL specification can be found in section 3.2 of RFC 2326.
C<URI> objects belonging to the rtsp scheme support the common, generic, and server methods, with the exception of userinfo and query-related sub-components.

=item B<rtspu>:

The I<rtspu> URI scheme is used to talk to RTSP servers over UDP instead of TCP. The syntax is the same as rtsp.

=item B<rsync>:

Information about rsync is available from L<http://rsync.samba.org/>. C<URI> objects belonging to the rsync scheme support the common, generic and server methods. In addition, they provide methods to access the userinfo sub-components: $uri->user and $uri->password.

=item B<sip>:

The I<sip> URI specification is described in sections 19.1 and 25 of RFC 3261. C<URI> objects belonging to the sip scheme support the common, generic, and server methods with the exception of path related sub-components. In addition, they provide two methods to get and set I<sip> parameters: $uri->params_form and $uri->params.

=item B<sips>:

See I<sip> scheme. Its syntax is the same as sip, but the default port is different.

=item B<snews>:

See I<news> scheme. Its syntax is the same as news, but the default port is different.

=item B<telnet>:

An old specification of the I<telnet> URI scheme is found in RFC 1738. C<URI> objects belonging to the telnet scheme support the common, generic and server methods.

=item B<tn3270>:

These URIs are used like I<telnet> URIs but for connections to IBM mainframes. C<URI> objects belonging to the tn3270 scheme support the common, generic and server methods.

=item B<ssh>:
Information about ssh is available at \[http://www.openssh.com/\]. C<URI> objects belonging to the ssh scheme support the common, generic and server methods. In addition, they provide methods to access the userinfo sub-components: $uri->user and $uri->password.

=item B<urn>:

The syntax of Uniform Resource Names is specified in RFC 2141. C<URI> objects belonging to the urn scheme provide the common methods, and also the methods $uri->nid and $uri->nss, which return the Namespace Identifier and the Namespace-Specific String respectively.

The Namespace Identifier basically works like the Scheme identifier of URIs, and further divides the URN namespace. Namespace Identifier assignments are maintained at \[http://www.iana.org/assignments/urn-namespaces\].

Letter case is not significant for the Namespace Identifier. It is always returned in lower case by the $uri->nid method. The $uri->_nid method can be used if you want it in its original case.

=item B<urn>:B<isbn>:

The C<urn:isbn:> namespace contains International Standard Book Numbers (ISBNs) and is described in RFC 3187. A C<URI> object belonging to this namespace has the following extra methods (if the Business::ISBN module is available): $uri->isbn, $uri->isbn_publisher_code, $uri->isbn_group_code (formerly isbn_country_code, which is still supported by issues a deprecation warning), $uri->isbn_as_ean.

=item B<urn>:B<oid>:

The C<urn:oid:> namespace contains Object Identifiers (OIDs) and is described in RFC 3061. An object identifier consists of sequences of digits separated by dots. A C<URI> object belonging to this namespace has an additional method called $uri->oid that can be used to get/set the oid value. In a list context, oid numbers are returned as separate elements.

=back

=head1 CONFIGURATION VARIABLES

The following configuration variables influence how the class and its methods behave:

=over 4

=item $URI::ABS_ALLOW_RELATIVE_SCHEME
Some older parsers used to allow the scheme name to be present in the relative URL if it was the same as the base URL scheme. RFC 2396 says that this should be avoided, but you can enable this old behaviour by setting the $URI::ABS_ALLOW_RELATIVE_SCHEME variable to a TRUE value. The difference is demonstrated by the following examples:

```perl
URI->new("http:foo")->abs("http://host/a/b")
  ===>  "http:foo"

local $URI::ABS_ALLOW_RELATIVE_SCHEME = 1;
URI->new("http:foo")->abs("http://host/a/b")
  ===>  "http:/host/a/foo"
```

=item $URI::ABS_REMOTE_LEADING_DOTS

You can also have the abs() method ignore excess "." segments in the relative URI by setting $URI::ABS_REMOTE_LEADING_DOTS to a TRUE value. The difference is demonstrated by the following examples:

```perl
URI->new("../../../foo")->abs("http://host/a/b")
  ===>  "http://host/../../foo"

local $URI::ABS_REMOTE_LEADING_DOTS = 1;
URI->new("../../../foo")->abs("http://host/a/b")
  ===>  "http://host/foo"
```

=item $URI::DEFAULT_QUERY_FORM_DELIMITER

This value can be set to ";" to have the query form C<key=value> pairs delimited by ";" instead of "&" which is the default.

=back

=head1 BUGS

There are some things that are not quite right:

=over

=item *

Using regexp variables like $1 directly as arguments to the URI accessor methods does not work too well with current perl implementations. I would argue that this is actually a bug in perl. The workaround is to quote them. Example:
The escaping (percent encoding) of chars in the 128 .. 255 range passed to the URI constructor or when setting URI parts using the accessor methods depend on the state of the internal UTF8 flag (see utf8::is_utf8) of the string passed. If the UTF8 flag is set the UTF-8 encoded version of the character is percent encoded. If the UTF8 flag isn't set the Latin-1 version (byte) of the character is percent encoded. This basically exposes the internal encoding of Perl strings.

### PARSING URIs WITH REGEXP

As an alternative to this module, the following (official) regular expression can be used to decode a URI:

```perl
my($scheme, $authority, $path, $query, $fragment) = $uri =~ m|(?:(\[^:/?#]+):)?(?://(\[^/?#]*))?([^?#]*)(?:\?(\[^#]*))??(?:#(.*))?|
```

The C<URI::Split> module provides the function uri_split() as a readable alternative.

### SEE ALSO

L<URI::file>, L<URI::WithBase>, L<URI::QueryParam>, L<URI::Escape>, L<URI::Split>, L<URI::Heuristic>


L<http://www.iana.org/assignments/uri-schemes>

L<http://www.iana.org/assignments/urn-namespaces>

L<http://www.w3.org/Addressing/>

### COPYRIGHT

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=head1 AUTHORS / ACKNOWLEDGMENTS

This module is based on the C<URI::URL> module, which in turn was (distantly) based on the C<wwwurl.pl> code in the libwww-perl for perl4 developed by Roy Fielding, as part of the Arcadia project at the University of California, Irvine, with contributions from Brooks Cutter.

C<URI::URL> was developed by Gisle Aas, Tim Bunce, Roy Fielding and Martijn Koster with input from other people on the libwww-perl mailing list.

C<URI> and related subclasses was developed by Gisle Aas.

=cut

Found in path(s):
* /opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-cK2458jW/URI-1.60.tar.gz-cosi-expand-archive-1PDHhzT/URI-1.60/URI.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

URI::file - URI that maps to local file names

=head1 SYNOPSIS

use URI::file;

$u1 = URI->new("file:/foo/bar");
$u2 = URI->new("foo/bar", "file");

$u3 = URI::file->new($path);
$u4 = URI::file->new("c:\windows\", "win32");

$u1->file;
$u1->file("mac");

=head1 DESCRIPTION

The C<URI::file> class supports C<URI> objects belonging to the I<file> URI scheme. This scheme allows us to map the conventional file names found on various computer systems to the URI name space. An old specification of the I<file> URI scheme is found in RFC 1738. Some older background information is also in RFC 1630. There are no newer
specifications as far as I know.

If you simply want to construct \texttt{file} URI objects from URI strings, use the normal \texttt{URI} constructor. If you want to construct \texttt{file} URI objects from the actual file names used by various systems, then use one of the following \texttt{URI::file} constructors:

\begin{verbatim}
=item $u = URI::file->new( $filename, [os] )

Maps a file name to the \texttt{file} URI name space, creates a URI object and returns it. The $filename is interpreted as belonging to the indicated operating system ($os), which defaults to the value of the $^O variable. The $filename can be either absolute or relative, and the corresponding type of URI object for $os is returned.

=item $u = URI::file->new_abs( $filename, [os] )

Same as URI::file->new, but makes sure that the URI returned represents an absolute file name. If the $filename argument is relative, then the name is resolved relative to the current directory, i.e. this constructor is really the same as:

\begin{verbatim}
URI::file->new($filename)->abs(URI::file->cwd);
\end{verbatim}

=item $u = URI::file->cwd

Returns a \texttt{file} URI that represents the current working directory. See L\texttt{Cwd}.
\end{verbatim}

The following methods are supported for \texttt{file} URI (in addition to the common and generic methods described in L\texttt{URI}):

\begin{verbatim}
=item $u->file( [os] )

Returns a file name. It maps from the URI name space to the file name space of the indicated operating system.

It might return \texttt{undef} if the name can not be represented in the indicated file system.

=item $u->dir( [os] )
\end{verbatim}
Some systems use a different form for names of directories than for plain files. Use this method if you know you want to use the name for a directory.

=back

The `URI::file` module can be used to map generic file names to names suitable for the current system. As such, it can work as a nice replacement for the `File::Spec` module. For instance, the following code translates the UNIX-style file name `Foo/Bar.pm` to a name suitable for the local system:

$file = URI::file->new("Foo/Bar.pm", "unix")->file;
die "Can't map filename Foo/Bar.pm for $^O" unless defined $file;
open(FILE, $file) || die "Can't open '$file': $!";
# do something with FILE

=head1 MAPPING NOTES

Most computer systems today have hierarchically organized file systems. Mapping the names used in these systems to the generic URI syntax allows us to work with relative file URIs that behave as they should when resolved using the generic algorithm for URIs (specified in RFC 2396). Mapping a file name to the generic URI syntax involves mapping the path separator character to `/` and encoding any reserved characters that appear in the path segments of the file name. If path segments consisting of the strings `."` or `".."` have a different meaning than what is specified for generic URIs, then these must be encoded as well.

If the file system has device, volume or drive specifications as the root of the name space, then it makes sense to map them to the authority field of the generic URI syntax. This makes sure that relative URIs can not be resolved "above" them, i.e. generally how relative file names work in those systems.

Another common use of the authority field is to encode the host on which this file name is valid. The host name "localhost" is special and generally has the same meaning as a missing or empty authority field. This use is in conflict with using it as a device specification, but can often be resolved for device specifications having characters not legal in plain host names.

File name to URI mapping in normally not one-to-one. There are usually many URIs that map to any given file name. For instance, an authority of "localhost" maps the same as a URI with a missing or empty authority.
Example 1: The Mac classic (Mac OS 9 and earlier) used ":" as path separator, but not in the same way as a generic URI. ":foo" was a relative name. "foo:bar" was an absolute name. Also, path segments could contain the "/" character as well as the literal ":" or ":..". So the mapping looks like this:

<table>
<thead>
<tr>
<th>Mac classic</th>
<th>URI</th>
</tr>
</thead>
<tbody>
<tr>
<td>:foo:bar</td>
<td>&lt;==&gt; foo/bar</td>
</tr>
<tr>
<td>::foo:bar</td>
<td>&lt;==&gt; ../foo/bar</td>
</tr>
<tr>
<td>::::</td>
<td>&lt;==&gt; ../../</td>
</tr>
<tr>
<td>.. foo:bar</td>
<td>&lt;==&gt; file:/foo/bar</td>
</tr>
<tr>
<td>foo/:</td>
<td>&lt;==&gt; file:/foo:/</td>
</tr>
<tr>
<td>..</td>
<td>&lt;==&gt; %2E%2E</td>
</tr>
<tr>
<td>&lt;undef&gt;</td>
<td>&lt;== /</td>
</tr>
<tr>
<td>foo/</td>
<td>&lt;== file:/foo%2F</td>
</tr>
<tr>
<td>/foo.txt</td>
<td>&lt;== file:/%2Ffoo.txt</td>
</tr>
</tbody>
</table>

Note that if you want a relative URL, you *must* begin the path with a :. Any path that begins with [^:] is treated as absolute.

Example 2: The UNIX file system is easy to map, as it uses the same path separator as URIs, has a single root, and segments of "." and ".." have the same meaning. URIs that have the character "/0" or "/f" as part of any path segment can not be turned into valid UNIX file names.

<table>
<thead>
<tr>
<th>UNIX</th>
<th>URI</th>
</tr>
</thead>
<tbody>
<tr>
<td>foo/bar</td>
<td>&lt;==&gt; foo/bar</td>
</tr>
<tr>
<td>/foo/bar</td>
<td>&lt;==&gt; file:/foo/bar</td>
</tr>
<tr>
<td>/foo/bar</td>
<td>&lt;==&gt; file:/localhost/foo/bar</td>
</tr>
<tr>
<td>file:</td>
<td>&lt;==&gt; /file:</td>
</tr>
<tr>
<td>&lt;undef&gt;</td>
<td>&lt;== file:/fo%00/bar</td>
</tr>
<tr>
<td>/</td>
<td>&lt;== file:/</td>
</tr>
</tbody>
</table>

=cut

RFC 1630

[...]

There is clearly a danger of confusion that a link made to a local file should be followed by someone on a different system, with unexpected and possibly harmful results. Therefore, the convention is that even a "file" URL is provided with a host part. This allows a client on another system to know that it cannot access the file system, or perhaps to use some other local mechanism to access the
The special value "localhost" is used in the host field to indicate that the filename should really be used on whatever host one is. This for example allows links to be made to files which are distributed on many machines, or to "your unix local password file" subject of course to consistency across the users of the data.

A void host field is equivalent to "localhost".

=head1 CONFIGURATION VARIABLES

The following configuration variables influence how the class and its methods behave:

=over

=item %URI::file::OS_CLASS

This hash maps OS identifiers to implementation classes. You might want to add or modify this if you want to plug in your own file handler class. Normally the keys should match the $^O values in use.

If there is no mapping then the "Unix" implementation is used.

=item $URI::file::DEFAULT_AUTHORITY

This determine what "authority" string to include in absolute file URIs. It defaults to ".". If you prefer verbose URIs you might set it to be "localhost".

Setting this value to C<undef> force behaviour compatible to URI v1.31 and earlier. In this mode host names in UNC paths and drive letters are mapped to the authority component on Windows, while we produce authority-less URIs on Unix.

=back

=head1 SEE ALSO

L<URI>, L<File::Spec>, L<perlport>

=head1 COPYRIGHT


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=cut

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license: perl

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# distributed under the same terms as Perl itself.

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=head1 NAME
URI::data - URI that contains immediate data

=head1 SYNOPSIS
use URI;

$u = URI->new("data:");
$u->media_type("image/gif");
$u->data(scalar('cat camel.gif'));
print "$u\n";
open(XV, "|xv -") and print XV $u->data;

=head1 DESCRIPTION
The C<URI::data> class supports C<URI> objects belonging to the I<data> URI scheme. The I<data> URI scheme is specified in RFC 2397. It allows inclusion of small data items as "immediate" data, as if it had been included externally. Examples:

data:image/gif;base64,R0lGODdhIAAgAIAAAAAAAPj8+CwAAAAAI
AAgAAACIYyPqcu9AJyCjtIKc5w5xP14xgeO2dY3nWcajmZZdeJcG
C<URI> objects belonging to the data scheme support the common methods (described in L<URI>) and the following two scheme-specific methods:

=over 4

=item $uri->media_type( [$new_media_type] )

Can be used to get or set the media type specified in the URI. If no media type is specified, then the default C"text/plain;charset=US-ASCII" is returned.

=item $uri->data( [$new_data] )

Can be used to get or set the data contained in the URI. The data is passed unescaped (in binary form). The decision about whether to base64 encode the data in the URI is taken automatically, based on the encoding that produces the shorter URI string.

=back

=head1 SEE ALSO

L<URI>

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-cK2458jW/URI-1.60.tar.gz-cosi-expand-archive-1PDHhHzT/URI-1.60/URI/data.pm
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NAME

URI::Escape - Percent-encode and percent-decode unsafe characters

SYNOPSIS

use URI::Escape;

$safe = uri_escape("10% is enough\n");

$verysafe = uri_escape("foo", ":0-377");

$str = uri_unescape($safe);

DESCRIPTION

This module provides functions to percent-encode and percent-decode URI strings as defined by RFC 3986. Percent-encoding URI's is informally called "URI escaping". This is the terminology used by this module, which predates the formalization of the terms by the RFC by several years.

A URI consists of a restricted set of characters. The restricted set of characters consists of digits, letters, and a few graphic symbols chosen from those common to most of the character encodings and input facilities available to Internet users. They are made up of the "unreserved" and "reserved" character sets as defined in RFC 3986.

unreserved    = ALPHA / DIGIT / ":. @/" ":._ / ":" / ":" / "@"
reserved      = ":." / ":" / ":" / ":" / ":" / ":" / ":" / ":" / ":" / ":" / ":" / ":" / "@"

In addition, any byte (octet) can be represented in a URI by an escape sequence: a triplet consisting of the character "%" followed by two hexadecimal digits. A byte can also be represented directly by a character, using the US-ASCII character for that octet.

Some of the characters are I<reserved> for use as delimiters or as part of certain URI components. These must be escaped if they are to be treated as ordinary data. Read RFC 3986 for further details.

The functions provided (and exported by default) from this module are:

uri_escape( $string )
=item uri_escape( $string, $unsafe )

Replaces each unsafe character in the $string with the corresponding
escape sequence and returns the result. The $string argument should
be a string of bytes. The uri_escape() function will croak if given a
characters with code above 255. Use uri_escape_utf8() if you know you
have such chars or/and want chars in the 128 .. 255 range treated as
UTF-8.

The uri_escape() function takes an optional second argument that
overrides the set of characters that are to be escaped. The set is
specified as a string that can be used in a regular expression
class (between [ ]). E.g.:

"\x00-\x1f\x7f-\xff"       # all control and hi-bit characters
"a-z"                       # all lower case characters
"^A-Za-z"                    # everything not a letter

The default set of characters to be escaped is all those which are
I<not> part of the C<unreserved> character class shown above as well
as the reserved characters. I.e. the default is:

"^A-Za-z0-9\-\_~"

=item uri_escape_utf8( $string )

=item uri_escape_utf8( $string, $unsafe )

Works like uri_escape(), but will encode chars as UTF-8 before
escaping them. This makes this function able to deal with characters
with code above 255 in $string. Note that chars in the 128 .. 255
range will be escaped differently by this function compared to what
uri_escape() would. For chars in the 0 .. 127 range there is no
difference.

Equivalent to:

utf8::encode($string);
my $uri = uri_escape($string);

Note: JavaScript has a function called escape() that produces the
sequence "%uXXXX" for chars in the 256 .. 65535 range. This function
has really nothing to do with URI escaping but some folks got confused
since it "does the right thing" in the 0 .. 255 range. Because of
this you sometimes see "URIs" with these kind of escapes. The
JavaScript encodeURIComponent() function is similar to uri_escape_utf8().
Returns a string with each %XX sequence replaced with the actual byte (octet).

This does the same as:

```perl
$string =~ s/%([0-9A-Fa-f]{2})/chr(hex($1))/eg;
```

but does not modify the string in-place as this RE would. Using the uri_unescape() function instead of the RE might make the code look cleaner and is a few characters less to type.

In a simple benchmark test I did, calling the function (instead of the inline RE above) if a few chars were unescaped was something like 40% slower, and something like 700% slower if none were. If you are going to unescape a lot of times it might be a good idea to inline the RE.

If the uri_unescape() function is passed multiple strings, then each one is returned unescaped.

The module can also export the C<%escapes> hash, which contains the mapping from all 256 bytes to the corresponding escape codes. Lookup in this hash is faster than evaluating C<sprintf("%%\%02X", ord($byte))> each time.

SEE ALSO

L<URI>

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This package contains the URI.pm module with friends. The module implements the URI class. Objects of this class represent Uniform Resource Identifier references as specified in RFC 2396 and updated by RFC 2732.

URI objects can be used to access and manipulate the various components that make up these strings. There are also methods to combine URIs in various ways.

Some tests require an Internet connection to work and are skipped if one is not active.

You need perl-5.8.1 or better to install this package. You should also have the MIME::Base64 module installed. Installation is otherwise as usual:

```
perl Makefile.PL
make
make test
make install
```

Questions about how to use this library should be directed to the comp.lang.perl.modules USENET Newsgroup. Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list.

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Found in path(s):
* /opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-cK2458jW/URI-1.60.tar.gz-cosi-expand-archive-1PDHhhzT/URI-1.60/README
No license file was found, but licenses were detected in source scan.

=head1 NAME
URI::Heuristic - Expand URI using heuristics

=head1 SYNOPSIS

```
use URI::Heuristic qw(uf_uristr);
$u = uf_uristr("perl");       # http://www.perl.com
$u = uf_uristr("www.sol.no/sol"); # http://www.sol.no/sol
$u = uf_uristr("aas");       # http://www.aas.no
$u = uf_uristr("/etc/passwd"); # file:/etc/passwd
```
DESCRIPTION

This module provides functions that expand strings into real absolute
URIs using some built-in heuristics. Strings that already represent
absolute URIs (i.e. that start with a scheme: part) are never modified
and are returned unchanged. The main use of these functions is to
allow abbreviated URIs similar to what many web browsers allow for URIs
typed in by the user.

The following functions are provided:

uf_uristr($str)

Tries to make the argument string
into a proper absolute URI string. The "uf_" prefix stands for "User
Friendly". Under MacOS, it assumes that any string with a common URL
scheme (http, ftp, etc.) is a URL rather than a local path. So don't name
your volumes after common URL schemes and expect uf_uristr() to construct
valid file: URL's on those volumes for you, because it won't.

uf_uri($str)

Works the same way as uf_uristr() but
returns a URI object.

ENVIRONMENT

If the hostname portion of a URI does not contain any dots, then
certain qualified guesses are made. These guesses are governed by
the following environment variables:

COUNTRY

The two-letter country code (ISO 3166) for your location. If
the domain name of your host ends with two letters, then it is taken
to be the default country. See also Locale::Country.

HTTP_ACCEPT_LANGUAGE, LC_ALL, LANG

If COUNTRY is not set, these standard environment variables are
examined and country (not language) information possibly found in them
is used as the default country.

=item URL_GUESS_PATTERN

Contains a space-separated list of URL patterns to try. The string "ACME" is for some reason used as a placeholder for the host name in the URL provided. Example:

URL_GUESS_PATTERN="www.ACME.no www.ACME.se www.ACME.com"
export URL_GUESS_PATTERN

Specifying URL_GUESS_PATTERN disables any guessing rules based on country. An empty URL_GUESS_PATTERN disables any guessing that involves host name lookups.

=back

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=cut

Found in path(s):
  */opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-cK2458jW/URI-1.60.tar.gz-cosi-expand-archive-1PDHhzT/URI-1.60/URI/Heuristic.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic
- fix License: tag

Found in path(s):
  */opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-cK2458jW/perl-URI.spec
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=head1 NAME

URI::ldap - LDAP Uniform Resource Locators

=head1 SYNOPSIS
use URI;

$uri = URI->new("ldap:$uri_string");
$dn   = $uri->dn;
$filter = $uri->filter;
@attr = $uri->attributes;
$scope = $uri->scope;
%extn = $uri->extensions;

$uri = URI->new("ldap:");  # start empty
$uri->host("ldap.itd.umich.edu");
$uri->dn("o=University of Michigan,c=US");
$uri->attributes(qw(postalAddress));
$uri->scope('sub');
$uri->filter('(cn=Babs Jensen)');
print $uri->as_string,"\n";

=head1 DESCRIPTION

C<URI::ldap> provides an interface to parse an LDAP URI into its constituent parts and also to build a URI as described in RFC 2255.

=head1 METHODS

C<URI::ldap> supports all the generic and server methods defined by L<URI>, plus the following.

Each of the following methods can be used to set or get the value in the URI. The values are passed in unescaped form. None of these return undefined values, but elements without a default can be empty. If arguments are given, then a new value is set for the given part of the URI.

=over 4

=item $uri->dn( [$new_dn] )

Sets or gets the I<Distinguished Name> part of the URI. The DN identifies the base object of the LDAP search.

=item $uri->attributes( [@new_attrs] )

Sets or gets the list of attribute names which are returned by the search.

=item $uri->scope( [$new_scope] )


Sets or gets the scope to be used by the search. The value can be one of C<"base">, C<"one">, or C<"sub">. If none is given in the URI then the return value defaults to C<"base">.

=item $uri->scope( $new_scope )

Same as scope(), but does not default to anything.

=item $uri->filter( $new_filter )

Sets or gets the filter to be used by the search. If none is given in the URI then the return value defaults to C<"(objectClass=*)">.

=item $uri->filter( $new_filter )

Same as filter(), but does not default to anything.

=item $uri->extensions( $etype => $evalue,... )

Sets or gets the extensions used for the search. The list passed should be in the form etype1 => evalue1, etype2 => evalue2,... This is also the form of list that is returned.

=back

=head1 SEE ALSO


=head1 AUTHOR

Graham Barr E<lt>F<gbarr@pobox.com>E<gt>

Slightly modified by Gisle Aas to fit into the URI distribution.

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-cK2458jW/URI-1.60.tar.gz-cosi-expand-archive-1PDHhhZT/URI-1.60/URI/ldap.pm

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

URI::_punycode - encodes Unicode string in Punycode

SYNOPSIS

use URI::_punycode;
$punycode = encode_punycode($unicode);
$unicode  = decode_punycode($punycode);

DESCRIPTION

URI::_punycode is a module to encode / decode Unicode strings into
Punycode, an efficient encoding of Unicode for use with IDNA.

This module requires Perl 5.6.0 or over to handle UTF8 flagged Unicode
strings.

FUNCTIONS

This module exports following functions by default.

encode_punycode

$punycode = encode_punycode($unicode);

takes Unicode string (UTF8-flagged variable) and returns Punycode
encoding for it.

decode_punycode

$unicode = decode_punycode($punycode)

takes Punycode encoding and returns original Unicode string.

AUTHOR

Tatsuhiko Miyagawa <miyagawa@bulknews.net> is the author of
IDNA::Punycode v0.02 which was the basis for this module.

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it under the same terms as Perl itself.

=head1 SEE ALSO

L<IDNA::Punycode>, RFC 3492

=cut

Found in path(s):
* /opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-cK2458jW/URI-1.60.tar.gz-cosi-expand-archive-1PDHhzT/URI-1.60/URI/_punycode.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

URI::Split - Parse and compose URI strings

=head1 SYNOPSIS

use URI::Split qw(uri_split uri_join);
($scheme, $auth, $path, $query, $frag) = uri_split($uri);
$uri = uri_join($scheme, $auth, $path, $query, $frag);

=head1 DESCRIPTION

Provides functions to parse and compose URI strings. The following functions are provided:

=over

=item ($scheme, $auth, $path, $query, $frag) = uri_split($uri)

Breaks up a URI string into its component parts. An C<undef> value is returned for those parts that are not present. The $path part is always present (but can be the empty string) and is thus never returned as C<undef>.

No sensible value is returned if this function is called in a scalar context.

=item $uri = uri_join($scheme, $auth, $path, $query, $frag)

Puts together a URI string from its parts. Missing parts are signaled by passing C<undef> for the corresponding argument.

Minimal escaping is applied to parts that contain reserved chars that would confuse a parser. For instance, any occurrence of '?' or '#
in $path is always escaped, as it would otherwise be parsed back
as a query or fragment.

=back

=head1 SEE ALSO

L<URI>, L<URI::Escape>

=head1 COPYRIGHT

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cut

Found in path(s):
* /opt/cola/permits/1111463123_1606928398.88/0/perl-URI-1.60-9.el7-1.src.rpm-cosi-expand-archive-
cK2458jW/URI-1.60.tar.gz-cosi-expand-archive-1PDHhhzT/URI-1.60/URI/Split.pm

1.502 perl-xml-sax-base 1.08-7.el7

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

Name: perl-XML-SAX-Base
Version: 1.08
Release: 7%{?dist}
Summary: Base class SAX drivers and filters
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/XML-SAX-Base/
Source0: http://www.cpan.org/authors/id/G/GR/GRANTM/XML-SAX-Base-%{version}.tar.gz
BuildArch: noarch
BuildRequires: perl(base)
BuildRequires: perl(Carp)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(Test)
BuildRequires: perl(Test::More) >= 0.88
Requires: perl(:MODULE_COMPAT_%(eval "\"perl -V:version\"; echo $version))
Conflicts: perl-XML-SAX < 0.99-1

description
This module has a very simple task - to be a base class for Perl SAX drivers
and filters. It's default behaviour is to pass the input directly to the
output unchanged. It can be useful to use this module as a base class so
you don't have to, for example, implement the characters() callback.
%prep
%setup -q -n XML-SAX-Base-%{version}
%build
perl Makefile.PL INSTALLDIRS=vendor
make %{?_smp_mflags}
%install
make pure_install DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -type f -name .packlist -exec rm -f {} \;
%{_fixperms} $RPM_BUILD_ROOT/*
mkdir -p $RPM_BUILD_ROOT/%{_docdir}/%{name}-%{version}
mv $RPM_BUILD_ROOT/%{perl_vendorlib}/XML/SAX/BuildSAXBase.pl
$RPM_BUILD_ROOT/%{_docdir}/%{name}-%{version}
%check
make test
%files
%doc Changes META.json README BuildSAXBase.pl
%{perl_vendorlib}/*
%{_mandir}/man3/*
%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.08-7
- Mass rebuild 2013-12-27
* Tue Nov 22 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.08-6
- Update dependencies
- Replace PERL_INSTALL_ROOT with DESTDIR
- Update description and summary
- Remove deleting empty directories
- Remove dist.ini from %%doc
* Mon Aug 27 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.08-5
- Specify all dependencies.
* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.08-4
- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild
* Mon Jun 11 2012 Petr Pisar <ppisar@redhat.com> - 1.08-3
- Perl 5.16 rebuild

Open Source Used In Tetration 3.5.1 5315


1.503 go-retryablehttp 0.5.4

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

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# JTS Topology Suite Licensing

May 30th, 2017

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analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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

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

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

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

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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1.527 libxfixes 5.0.3-1.el7

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That's all there is to it!
Thanks go to the following people for patches and contributions:

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for his contributions to the dvb-net driver
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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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Open Source Used In Tetration 3.5.1 5576

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*/

/*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* */
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destroyor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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</div>
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| 
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<li class="none">
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<li class="none">
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1.535 libwww-robotrules-perl 6.01-1

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NAME
WWW::RobotRules - database of robots.txt-derived permissions

SYNOPSIS
use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{
  my $url = "http://some.place/robots.txt";
  my $robots_txt = get $url;
  $rules->parse($url, $robots_txt) if defined $robots_txt;
}

{
  my $url = "http://some.other.place/robots.txt";
  my $robots_txt = get $url;
  $rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
  $c = get $url;
  ...
}

DESCRIPTION
This module parses /robots.txt files as specified in "A Standard for
Webmasters can use the /robots.txt file to forbid conforming robots from
accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object
provides methods to check if access to a given URL is prohibited. The
same WWW::RobotRules object can be used for one or more parsed
/robots.txt files on any number of hosts.

The following methods are provided:

$rules = WWW::RobotRules->new($robot_name)
  This is the constructor for WWW::RobotRules objects. The first
  argument given to new() is the name of the robot.

$rules->parse($robot_txt_url, $content, $fresh_until)
  The parse() method takes as arguments the URL that was used to
  retrieve the /robots.txt file, and the contents of the file.
$rules->allowed($uri)
Returns TRUE if this robot is allowed to retrieve this URL.

(rules->agent([{$name}])
Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

ROBOTS.TXT
The format and semantics of the "/robots.txt" file are as follows (this is an edited abstract of <http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

<field-name>: <value>

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

User-Agent
The value of this field is the name of the robot the record is describing access policy for. If more than one *User-Agent* field is present the record describes an identical access policy for more than one robot. At least one field needs to be present per record. If the value is '*', the record describes the default access policy for any robot that has not not matched any of the other records.

The *User-Agent* fields must occur before the *Disallow* fields. If a record contains a *User-Agent* field after a *Disallow* field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that *User-Agent* field, and will break the record into two. All the fields before the *User-Agent* field will constitute a record, and the *User-Agent* field will be the first field in a new record.

Disallow
The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved

Unrecognized records are ignored.

ROBOTS.TXT EXAMPLES
The following example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear

This example "/robots.txt“ file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

SEE ALSO
LWP::RobotUA, WWW::RobotRules::AnyDBM_File

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6.01/README
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# Bender: "Well, I don't have anything else
#     planned for today. Let's get drunk!"

=head1 NAME
WWW::RobotRules - database of robots.txt-derived permissions

=head1 SYNOPSIS

use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{
  my $url = "http://some.place/robots.txt";
  my $robots_txt = get $url;
  $rules->parse($url, $robots_txt) if defined $robots_txt;
}

{
  my $url = "http://some.other.place/robots.txt";
  my $robots_txt = get $url;
  $rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
  $c = get $url;
  ...
}

=head1 DESCRIPTION

This module parses F</robots.txt> files as specified in
"A Standard for Robot Exclusion", at
<http://www.robotstxt.org/wc/norobots.html>
Webmasters can use the F</robots.txt> file to forbid conforming
robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object
provides methods to check if access to a given URL is prohibited. The
same WWW::RobotRules object can be used for one or more parsed
F</robots.txt> files on any number of hosts.
The following methods are provided:

=item $rules = WWW::RobotRules->new($robot_name)

This is the constructor for WWW::RobotRules objects. The first argument given to new() is the name of the robot.

=item $rules->parse($robot_txt_url, $content, $fresh_until)

The parse() method takes as arguments the URL that was used to retrieve the F<robots.txt> file, and the contents of the file.

=item $rules->allowed($uri)

Returns TRUE if this robot is allowed to retrieve this URL.

=item $rules->agent([$name])

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

=head1 ROBOTS.TXT

The format and semantics of the "/robots.txt" file are as follows (this is an edited abstract of <http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

  <field-name>: <value>

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

=over 3

=item User-Agent

The value of this field is the name of the robot the record is describing access policy for. If more than one I<User-Agent> field is present the record describes an identical access policy for more than
one robot. At least one field needs to be present per record. If the value is \texttt{"*"}, the record describes the default access policy for any robot that has not matched any of the other records.

The \texttt{I\langle User-Agent\rangle} fields must occur before the \texttt{I\langle Disallow\rangle} fields. If a record contains a \texttt{I\langle User-Agent\rangle} field after a \texttt{I\langle Disallow\rangle} field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that \texttt{I\langle User-Agent\rangle} field, and will break the record into two. All the fields before the \texttt{I\langle User-Agent\rangle} field will constitute a record, and the \texttt{I\langle User-Agent\rangle} field will be the first field in a new record.

\begin{verbatim}
=\textit{item} Disallow
The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved.
\end{verbatim}

Unrecognized records are ignored.

\begin{verbatim}
\textbf{HEAD1 ROBOTS.TXT EXAMPLES}

The following example \texttt{"/robots.txt"} file specifies that no robots should visit any URL starting with \texttt{"/cyberworld/map/"} or \texttt{"/tmp/"}:

\begin{verbatim}
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear
\end{verbatim}

This example \texttt{"/robots.txt"} file specifies that no robots should visit any URL starting with \texttt{"/cyberworld/map/"}, except the robot called "cybermapper":

\begin{verbatim}
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:
\end{verbatim}

This example indicates that no robots should visit this site further:

\begin{verbatim}
# go away
User-agent: *
Disallow: /
\end{verbatim}

\end{verbatim}
This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records.
However, the intention is clear.

=head1 SEE ALSO

L<LWP::RobotUA>, L<WWW::RobotRules::AnyDBM_File>

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1.536 libdnet 1.12

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1.538 rsync 3.0.6 12.el6

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1.552 sqlite 3.8.2-1ubuntu2.2

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    font-style:italic;
    width:300px;
    margin:12px;
    margin-top:58px;
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<div style="padding:0 1em 0px 0;white-space:nowrap">
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  <input id="q" name="q" type="text"
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1.554 vim 7.4.629-5.el6_10.2

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

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with, at your option.

=== end of license ===

Note:

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

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

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

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

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

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

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

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

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

*Donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.
Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

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

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

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

if version < 600
" Remove any old syntax stuff hanging around
    syn clear
elseif exists("b:current_syntax")
    finish
endif
" Product specification files are case sensitive
syn case match
Some of the attributes covered by attUnquotString and attQuotString:
architecture category_tag control_directory copyright
create_date description directory file_permissions install_source
install_type location machine_type mod_date number os_name os_release
os_version pose_as_os_name pose_as_os_release readme revision
share_link title vendor_tag

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.
Define the default highlighting.

For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn’t have highlighting yet
if version >= 508 || !exists("did_psfSyntaxInits")
if version < 508
let did_psfSyntaxInits = 1
    command -nargs=+ HiLink hi link <args>
else
    command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment

delcommand HiLink
endif
let b:current_syntax = "psf"
/*
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 *
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 * of this software and associated documentation files (the "Software"), to
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 */

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                 2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:   (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.555 perl-test-harness 3.28-3.el7

1.556 lvm2 2.02.186 7.el7
1.556.1 Available under license:

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Version 2.1, February 1999

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1.558 metrics-core 2.2.0

1.559 sarama 1.17.0
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1.560 curl 7.29.0 51.el7
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1.561 screen 4.1.0-0.25.20120314git3c2946.el7

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## 1.563 sudo 1.8.9p5-1ubuntu1.2

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Ackeret, Matt
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Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
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Bowes, Keith
Boyce, Keith Garry
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Janssen, Mark
Jepeway, Chris
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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1.565 python-backports-abc 0.5-1.el6

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.590 libsocket-perl 0.25-1
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Upstream-Contact: Hajimu UMEMOTO <ume@mahoroba.org>
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A. HISTORY OF THE SOFTWARE
============================

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Mersenne Twister

----------

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

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

Before using, initialize the state by using init_genrand(seed)
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http://www.math.keio.ac.jp/matumoto/emt.html
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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

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

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

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

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

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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UUencode and UUdecode functions

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    Modified by Jack Jansen, CWI, July 1995:
    - Use binascii module to do the actual line-by-line conversion
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    - Arguments more compliant with Python standard

XML Remote Procedure Calls

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

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Select kqueue
----------

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--------

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Dan Bernstein's SipHash24 algorithm. The contains the following note::

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

strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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-----

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zlib
----

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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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

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

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

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

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1.601 centos-logos 70.0.6 3.el7.centos

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1.602 libnfsidmap 0.25-5

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1.603 xbean-asm5-shaded 4.4
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1.605 compiler 0.9.3

1.606 mongo-java-driver 3.0.2

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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/BsonDocumentReader.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/client/model/CountOptions.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/connection/ExponentiallyWeightedMovingAverage.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/UuidRepresentation.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/util/AbstractCopyOnWriteMap.java

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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/types/package-info.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/io/package-info.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/operation/BsonArrayWrapper.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/codecs/configuration/CodecCache.java
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  jar/com/mongodb/connection/AsyncConnection.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
  jar/com/mongodb/connection/Connection.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
  jar/com/mongodb/connection/InternalStreamConnection.java
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  jar/com/mongodb/event/ConnectionListener.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
  jar/com/mongodb/operation/CommandResultArrayCodec.java
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  jar/org/bson/json/JsonScanner.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1.jar/com/mongodb/client/MongoCollection.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1.jar/com/mongodb/operation/DeleteOperation.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/TaggableReadPreference.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/MongoSocketWriteException.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/selector/ServerSelector.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/BulkWriteError.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/io/Bits.java
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- **/opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/connection/MessageSettings.java**
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/event/ConnectionMessageReceivedEvent.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/Mongo.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/DBDecoder.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/DBCursor.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/client/model/InsertManyOptions.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/binding/AsyncConnectionSource.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/selector/ServerAddressSelector.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/DBCursor.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/connection/ServerSettings.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/operation/OperationHelper.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/connection/ScramSha1Authenticator.java
jar/com/mongodb/MongoExecutionTimeoutException.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/ReplaceRequest.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/binding/SingleServerBinding.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/codecs/IntegerCodec.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/connection/ServerId.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/ByteBufNIO.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/codecs/SymbolCodec.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/event/ClusterEventMulticaster.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/util/package-info.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/selector/PrimaryServerSelector.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/DBRef.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/LazyDBObject.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/WriteRequest.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/LazyDBList.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/validator/NoOpFieldNameValidator.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/codecs/configuration/ProvidersCodecRegistry.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
  jar/org/bson/json/JsonTokenType.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/codecs/ValueCodecProvider.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/connection/DescriptionHelper.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
  jar/com/mongodb/annotations/Immutable.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
  jar/com/mongodb/annotations/ThreadSafe.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
  jar/com/mongodb/annotations/NotThreadSafe.java

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*/
/**
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
* 
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
* 
* <p>This method acts as bridge between array-based and collection-based
* APIs.
* 
* @return an array containing all of the elements in this deque
*/

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Found in path(s):
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/client/ListCollectionsIterable.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/client/ListDatabasesIterable.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/bulk/IndexRequest.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/ListDatabasesIterableImpl.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/org/bson/codecs/AtomicBooleanCodec.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/client/model/IndexModel.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
jar/com/mongodb/ListIndexesIterableImpl.java
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
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* /opt/cola/permits/1138241811_1614277754.48/0/mongo-java-driver-3-0-2-sources-1-
jar/com/mongodb/MongoCollectionImpl.java

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

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

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

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<table>
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<td>PSF</td>
<td>yes</td>
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Mersenne Twister
---------------

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

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

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

    http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2krr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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/* This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. */
namespace Gio
{

/** An object representing the permission to perform a certain action.
 * 
 * A Permission represents the status of the caller's permission to
 * perform a certain action.
 * 
 * You can query if the action is currently allowed and if it is
 * possible to acquire the permission so that the action will be allowed
 * in the future.
 * 
 * There is also an API to actually acquire the permission and one to
 * release it.
 * 
 * As an example, a Permission might represent the ability for the
 * user to write to a Settings object. This Permission object could
 * then be used to decide if it is appropriate to show a "Click here to
 * unlock" button in a dialog and to provide the mechanism to invoke
 * when that button is clicked.
 * 
 * @newin{2,42}
 */

class Permission : public Glib::Object
{

\_CLASS\_GOBJECT(Permission, GPermission, G\_PERMISSION, Glib::Object, GObject)

public:

\_WRAP\_METHOD(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission\_acquire, errthrow)
\_WRAP\_METHOD(void acquire\_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.}), g_permission\_acquire\_async, slot\_name slot, slot\_callback SignalProxy\_async\_callback)
\_WRAP\_METHOD(bool acquire\_finish(const Glib::RefPtr<AsyncResult>& result), g_permission\_acquire\_finish, errthrow)
#include <glibmm/ustring.h>
#include <sigc++/sigc++.h>

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
#define _CONVERSION("GAsyncResult*", "const Glib::RefPtr<AsyncResult>&")
#define _CONVERSION("GCancellable*", "const Glib::RefPtr<Cancellable>&")

// You should never call this function except from a Gio::Permission implementation.
#define GIOPermission_Version 1

}; // namespace Gio

// Generated by gmmproc 2.54.1 -- DO NOT MODIFY!
#ifndef _GIOMM_PERMISSION_H
#define _GIOMM_PERMISSION_H

 Witt 2023

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 *
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 */

#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncresult.h>

#ifndef DOXYGEN_SHOULD_SKIP_THIS
using GPermission = struct _GPermission;
using GPermissionClass = struct _GPermissionClass;
#endif /* DOXYGEN_SHOULD_SKIP_THIS */

#ifndef DOXYGEN_SHOULD_SKIP_THIS
namespace Gio
{
    class Permission_Class;
} // namespace Gio
#endif //DOXYGEN_SHOULD_SKIP_THIS

namespace Gio
{

    /** An object representing the permission to perform a certain action.
     * 
     * A Permission represents the status of the caller's permission to
     * perform a certain action.
     * 
     * You can query if the action is currently allowed and if it is
     * possible to acquire the permission so that the action will be allowed
     * in the future.
     * 
     * There is also an API to actually acquire the permission and one to
     * release it.
     */
* As an example, a Permission might represent the ability for the
  * user to write to a Settings object. This Permission object could
  * then be used to decide if it is appropriate to show a "Click here to
  * unlock" button in a dialog and to provide the mechanism to invoke
  * when that button is clicked.

* @newin{2,42}
*/

class Permission : public Glib::Object
{

#ifdef DOXYGEN_SHOULD_SKIP_THIS

public:
    using CppObjectType = Permission;
    using CppClassType = Permission_Class;
    using BaseObjectType = GPermission;
    using BaseClassType = GPermissionClass;

    // noncopyable
    Permission(const Permission&) = delete;
    Permission& operator=(const Permission&) = delete;

    private:  friend class Permission_Class;
    static CppClassType permission_class_; 

    protected:
    explicit Permission(const Glib::ConstructParams& construct_params);
    explicit Permission(GPermission* castitem);

#endif /* DOXYGEN_SHOULD_SKIP_THIS */

public:

    Permission(Permission&& src) noexcept;
    Permission& operator=(Permission&& src) noexcept;
    ~Permission() noexcept override;

    /** Get the GType for this class, for use with the underlying GObject type system. */
    static GType get_type() G_GNUC_CONST;

#endif /* DOXYGEN_SHOULD_SKIP_THIS */

    static GType get_base_type() G_GNUC_CONST;

};
#endif

///Provides access to the underlying C GObject.
GPermission* gobj() { return reinterpret_cast<GPermission*>(gobject_); }

///Provides access to the underlying C GObject.
const GPermission* gobj() const { return reinterpret_cast<GPermission*>(gobject_); }

///Provides access to the underlying C instance. The caller is responsible for unrefing it. Use when directly setting fields in structs.
GPermission* gobj_copy();

private:

public:

/** Attempts to acquire the permission represented by @a permission.
 * The precise method by which this happens depends on the permission and the underlying authentication mechanism. A simple example is that a dialog may appear asking the user to enter their password.
 * You should check with g_permission_get_can_acquire() before calling this function.
 * If the permission is acquired then <tt>true</tt> is returned. Otherwise, <tt>false</tt> is returned and @a error is set appropriately.
 * This call is blocking, likely for a very long time (in the case that user interaction is required). See g_permission_acquire_async() for the non-blocking version.
 * @newin{2,26}
 * @param cancellable A Cancellable, or <tt>nullptr</tt>.
 * @return <tt>true</tt> if the permission was successfully acquired.
 * @throws Glib::Error
 */
bool acquire(const Glib::RefPtr<Cancellable>& cancellable);

/// A acquire() convenience overload.
bool acquire();

/** Attempts to acquire the permission represented by @a permission.
 */
This is the first half of the asynchronous version of g_permission_acquire().

@newin{2,26}

@param cancellable A Cancellable, or <tt>nullptr</tt>.
@param slot The SlotAsyncReady to call when done.

*/

void acquire_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// A acquire_async() convenience overload.

void acquire_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to acquire the permission represented by @a permission.

This is the second half of the asynchronous version of g_permission_acquire().

@newin{2,26}

@param result TheAsyncResult given to the SlotAsyncReady.
@return <tt>true</tt> if the permission was successfully acquired.
@throws Glib::Error
*/

bool acquire_finish(const Glib::RefPtr<AsyncResult>& result);

/** Attempts to release the permission represented by @a permission.

The precise method by which this happens depends on the permission and the underlying authentication mechanism. In most cases the permission will be dropped immediately without further action.

You should check with g_permission_get_can_release() before calling this function.

If the permission is released then <tt>true</tt> is returned. Otherwise, <tt>false</tt> is returned and @a error is set appropriately.

This call is blocking, likely for a very long time (in the case that user interaction is required). See g_permission_release_async() for the non-blocking version.

@newin{2,26}

@param cancellable A Cancellable, or <tt>nullptr</tt>.
bool release(const Glib::RefPtr<Cancellable>& cancellable);

/// A release() convenience overload.
bool release();

/** Attempts to release the permission represented by @a permission.
* This is the first half of the asynchronous version of
* g_permission_release().
* @newin{2,26}
* @param cancellable A Cancellable, or nullptr.
* @param slot The SlotAsyncReady to call when done.
*/
void release_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// A release_async() convenience overload.
void release_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to release the permission
* represented by @a permission.
* This is the second half of the asynchronous version of
* g_permission_release().
* @newin{2,26}
* @param result The AsyncResult given to the SlotAsyncReady.
* @return true if the permission was successfully released.
* @throws Glib::Error
*/
bool release_finish(const Glib::RefPtr<AsyncResult>& result);

/** Gets the value of the 'allowed' property. This property is true if
* the caller currently has permission to perform the action that
* @a permission represents the permission to perform.
* @newin{2,26}
* @return The value of the 'allowed' property.
*/
bool get_allowed() const;

/** Gets the value of the 'can-acquire' property. This property is \texttt{true}\ if it is generally possible to acquire the permission by calling
 * \texttt{g_permission_acquire()}.
 */

* @newin{2,26}
 *
 * \@return The value of the 'can-acquire' property.
 */
bool get_can_acquire() const;

/** Gets the value of the 'can-release' property. This property is \texttt{true}\ if it is generally possible to release the permission by calling
 * \texttt{g_permission_release()}.
 */

* @newin{2,26}
 *
 * \@return The value of the 'can-release' property.
 */
bool get_can_release() const;

/** \texttt{true}\ if the caller currently has permission to perform the action that
 * @a permission represents the permission to perform.
 */

* @Default value: \texttt{false}\*
 *
 * \@return A PropertyProxy\_ReadOnly that allows you to get the value of the property,
 * or receive notification when the value of the property changes.
 */
Glib::PropertyProxy\_ReadOnly< bool > property_allowed() const;

/** \texttt{true}\ if it is generally possible to acquire the permission by calling
 * \texttt{g_permission_acquire()}.
 */

* @Default value: \texttt{false}\*
 *
 * \@return A PropertyProxy\_ReadOnly that allows you to get the value of the property,
 * or receive notification when the value of the property changes.
 */
Glib::PropertyProxy\_ReadOnly< bool > property_can_acquire() const;

/** \texttt{true}\ if it is generally possible to release the permission by calling
 * \texttt{g_permission_release()}.
 */

* @Default value: \texttt{false}\*
* @return A PropertyProxy_ReadOnly that allows you to get the value of the property, or receive notification when the value of the property changes.
* /
Glib::PropertyProxy_ReadOnly< bool > property_can_release() const;

protected:

Permission();

// A copy is needed for vfunccs, i.e. Glib::wrap($3, true)

/// @throws Glib::Error.
virtual bool acquire_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

virtual void acquire_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// @throws Glib::Error.
virtual bool acquire_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);

/// @throws Glib::Error.
virtual bool release_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

virtual void release_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// @throws Glib::Error.
virtual bool release_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);

// You should never call this function except from a Gio::Permission implementation.

/** This function is called by the Permission implementation to update the properties of the permission. You should never call this function except from a Permission implementation.
* * GObject notify signals are generated, as appropriate.
* *
* @newin {2,26}
* *
* @param allowed The new value for the 'allowed' property.
* @param can_acquire The new value for the 'can-acquire' property.
* @param can_release The new value for the 'can-release' property.
* /
void impl_update(bool allowed, bool can_acquire, bool can_release);
public:

public:
//C++ methods used to invoke GTK+ virtual functions:

protected:
//GTK+ Virtual Functions (override these to change behaviour):

//Default Signal Handlers::

};
}
} // namespace Gio

namespace Glib
{
/** A Glib::wrap() method for this object.
 * @param object The C instance.
 * @param take_copy False if the result should take ownership of the C instance. True if it should take a new copy or ref.
 * @param result A C++ instance that wraps this C instance.
 * @relates Gio::Permission
 */
Glib::RefPtr<Gio::Permission> wrap(GPermission* object, bool take_copy = false);
}

#endif /* _GIOMM_PERMISSION_H */

1.618 openssl 1.0.1t 1+deb8u7

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

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

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

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

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

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

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1.625 purell 1.1.1
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1.626 mongodb 2.4.9-1ubuntu2
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1.641 vim 7.4.160 1.el7

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

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Note:

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

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

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Kibaale Children's Centre

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

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

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

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

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

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

*Donate*

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

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

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

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

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

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

Sending money:*iccf_donations*

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

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

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

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

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

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

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

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

vim:tw=78:ts=8:ft=help:norl:
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1.642 xz 5.1.2 12alpha.el7

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

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## Special Recognition ##

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

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

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

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

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.662 dhcp 4.2.4-7ubuntu12.12

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2b5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
file. You can obtain one at http://mozilla.org/MPL/2.0/.
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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    *uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

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

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

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=== begin of license ===

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Note:

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

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

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

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Kibaale Children's Centre

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

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

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

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   8134 Adliswil
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1.672 base-passwd 3.5.37

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Section 6 states terms for distribution of such executables.

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

    If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Boston, MA 02111-1307, USA. */

Multi-byte extension added May, 1993 by t^2 (Takahiro Tanimoto)
Last change: May 21, 1993 by t^2
removed gapped buffer support, multiple syntax support by matz <matz@nts.co.jp>
Perl5 extension added by matz <matz@caelum.co.jp>
UTF-8 extension added Jan 16 1999 by Yoshida Masato  <yoshidam@tau.bekkoame.ne.jp>

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cfg.sub:

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win32/win32.[ch]:

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

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

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st.[ch]:
x68/*:
missing/aloca.c:
missing/dup2.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/memcmp.c:
missing/memmove.c:
missing/strcasecmp.c:
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L. Peter Deutsch
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AUTHOR: Antoon Bosselaers, ESAT-COSIC
(Arranged for libc by Todd C. Miller)
DATE: 1 March 1996

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

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1.681 avahi 0.6.31-4ubuntu1.3
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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1.682 yum-utils 1.1.31-54.el7_8

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</xsl:variable>

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

</xsl:stylesheet>

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

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* configure.ac, Makefile.am: The original versions were derived from the
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  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c0f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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1.688 busybox 1.21.1

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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That's all there is to it!
1.691 python-enum 1.0.4-1.el7

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1.692 libevent 1.4.13 4.el6

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*/
#! /bin/sh
# Common stub for a few missing GNU programs while installing.

scriptversion=2003-09-02.23

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# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.
if test $# -eq 0; then
    echo 1>&2 "Try \$0 --help' for more information"
    exit 1
fi

# generated automatically by aclocal 1.10.1 -*- Autoconf -*-

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m4_ifndef([AC_AUTOCONF_VERSION],
    [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])])
    dnl
m4_if([AC_AUTOCONF_VERSION, [2.63]],
    [m4_warning([this file was generated for autoconf 2.63.
    You have another version of autoconf. It may work, but is not guaranteed to.
    If you have problems, you may need to regenerate the build system entirely.
    To do so, use the procedure documented by the package, typically 'autoreconf'].)])

# libtool.m4 - Configure libtool for the host system. -*-Autoconf-*-

# serial 52 AC_PROG_LIBTOOL

# AC_PROVIDE_IFELSE(MACRO-NAME, IF-PROVIDED, IF-NOT-PROVIDED)
# -----------------------------------------------
# If this macro is not defined by Autoconf, define it here.
m4_ifndef([AC_PROVIDE_IFELSE],
    [],
    [m4_define([AC_PROVIDE_IFELSE],
        [m4_ifndef([AC_PROVIDE_$1],
            [$2], [$3]))])

# AC_PROG_LIBTOOL
# --------
AC_DEFUN([AC_PROG_LIBTOOL],
    [AC_REQUIRE([AC_PROG_LIBTOOL])]
    dnl If AC_PROG_CXX has already been expanded, run AC_LIBTOOL_CXX
dnl immediately, otherwise, hook it in at the end of AC_PROG_CXX.
    AC_PROVIDE_IFELSE([AC_PROG_CXX],
        [AC_LIBTOOL_CXX],

Open Source Used In Tetration 3.5.1 7248
define([AC_PROG_CXX], defn([AC_PROG_CXX])[AC_LIBTOOL_CXX]))
dnl And a similar setup for Fortran 77 support
AC_PROVIDE_IFELSE([AC_PROG_F77],
[AC_LIBTOOL_F77],
[define([AC_PROG_F77], defn([AC_PROG_F77])[AC_LIBTOOL_F77]))
dnl Quote A)[M_PROG_GCJ so that aclocal doesn't bring it in needlessly.
dnl If either AC_PROG_GCJ or A)[M_PROG_GCJ have already been expanded, run
dnl AC_LIBTOOL_GCJ immediately, otherwise, hook it in at the end of both.
AC_PROVIDE_IFELSE([AC_PROG_GCJ],
[AC_LIBTOOL_GCJ],
AC_PROVIDE_IFELSE([A][M_PROG_GCJ],
[AC_LIBTOOL_GCJ],
AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],
[AC_LIBTOOL_GCJ],
[ifdef([AC_PROG_GCJ],
[define([AC_PROG_GCJ], defn([AC_PROG_GCJ])[AC_LIBTOOL_GCJ]))
ifdef([A][M_PROG_GCJ],
[define([A][M_PROG_GCJ], defn([A][M_PROG_GCJ])[AC_LIBTOOL_GCJ]))
ifdef([LT_AC_PROG_GCJ],
[define([LT_AC_PROG_GCJ],
[ifdef([LT_AC_PROG_GCJ],
defn([LT_AC_PROG_GCJ])[AC_LIBTOOL_GCJ]))]))]))# AC_PROG_LIBTOOL

# _AC_PROG_LIBTOOL
# -------------
AC_DEFUN([_AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_LIBTOOL_SETUP])
dnl AC_BEFORE([S0],[AC_LIBTOOL_CXX])
dnl AC_BEFORE([S0],[AC_LIBTOOL_F77])
dnl AC_BEFORE([S0],[AC_LIBTOOL_GCJ])

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL="$SHELL" "$top_builddir/libtool"
AC_SUBST(LIBTOOL)
dnl

# Prevent multiple expansion
define([AC_PROG_LIBTOOL], [])
J)# _AC_PROG_LIBTOOL

# AC_LIBTOOL_SETUP
# ----------------
AC_DEFUN([AC_LIBTOOL_SETUP],
[AC_PREREQ(2.50)]dnl
AC_REQUIRE([AC_ENABLE_SHARED])dnl
AC_REQUIRE([AC_ENABLE_STATIC])dnl
AC_REQUIRE([AC_ENABLE_FAST_INSTALL])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl
AC_REQUIRE([AC_CANONICAL_BUILD])dnl
AC_REQUIRE([AC_PROG_CC])dnl
AC_REQUIRE([AC_PROG_LD])dnl
AC_REQUIRE([AC_PROG_LD_RELOAD_FLAG])dnl
AC_REQUIRE([AC_PROG_NM])dnl

AC_REQUIRE([AC_PROG_LN_S])dnl
AC_REQUIRE([AC_DEPLIBS_CHECK_METHOD])dnl
# Autoconf 2.13's AC_OBJCEXT and AC_EXEEXT macros only works for C compilers!
AC_REQUIRE([AC_OBJCEXT])dnl
AC_REQUIRE([AC_EXEEXT])dnl
dnl
AC_LIBTOOL_SYS_MAX_CMD_LEN
AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
AC_LIBTOOL_OBJDIR

AC_REQUIRE([LT_AC_SYS_COMPILER])dnl
_LT_AC_PROG_ECHO_BACKSLASH

case $host_os in
  aix3*)
    # AIX sometimes has problems with the GCC collect2 program. For some
    # reason, if we set the COLLECT_NAMES environment variable, the problems
    # vanish in a puff of smoke.
    if test "X${COLLECT_NAMES+set}" != Xset; then
      COLLECT_NAMES=
      export COLLECT_NAMES
    fi
  ;;
esac

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e 1s/^X/\'/
[sed_quote_subst='s/([^\\$]+)\///g']

# Same as above, but do not quote variable references.
[double_quote_subst='s/([^\\$]+)\///g']

# Sed substitution to delay expansion of an escaped shell variable in a
# double_quote_subst'ed string.
delay_variable_subst='s\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\n
# Sed substitution to avoid accidental globbing in evaled expressions
no_glob_subst='s/\*/\*/g'

# Constants:
rm="rm -f"

# Global variables:
default_ofile=libtool
can_build_shared=yes

# All known linkers require a `.a` archive for static linking (except MSVC,
# which needs `.lib`).
libext=a
ltmain="ac_aux_dir/ltmain.sh"
ofile="$default_ofile"
with_gnu_ld="lt_cv_prog_gnu_ld"

AC_CHECK_TOOL(AR, ar, false)
AC_CHECK_TOOL(RANLIB, ranlib, :)
AC_CHECK_TOOL(STRIP, strip, :)

old_CC="$CC"
old_CFLAGS="$CFLAGS"

# Set sane defaults for various variables
test -z "$AR" && AR=ar
test -z "$AR_FLAGS" && AR_FLAGS=cru
test -z "$AS" && AS=as
test -z "$CC" && CC=cc
test -z "$LTCC" && LTCC=CC
test -z "$LTCFLAGS" && LTCFLAGS=$CFLAGS
test -z "$DLLTOOL" && DLLTOOL=dlltool
test -z "$LD" && LD=ld
test -z "$LN_S" && LN_S="ln -s"
test -z "$MAGIC_CMD" && MAGIC_CMD=file
test -z "$NM" && NM=nm
test -z "$SED" && SED=sed
test -z "$OBJDUMP" && OBJDUMP=objdump
test -z "$RANLIB" && RANLIB=:;
test -z "$STRIP" && STRIP=:;
test -z "$ac_objext" && ac_objext=0

# Determine commands to create old-style static archives.
old_archive_cmds='$AR $AR_FLAGS $oldlib$oldobjs'
old_postinstall_cmds='chmod 644 $oldlib$
old_postuninstall_cmds='
if test -n "$RANLIB"; then
  case $host_os in
  openbsd*)
    old_postinstall_cmds="$old_postinstall_cmds~$RANLIB -t $oldlib"
    ;;
  *)
    old_postinstall_cmds="$old_postinstall_cmds~$RANLIB $oldlib"
    ;;
  esac
  old_archive_cmds="$old_archive_cmds~$RANLIB $oldlib"
fi

_LT_CC_BASENAME([$compiler])

# Only perform the check for file, if the check method requires it
case $deplibs_check_method in
  file_magic*)
    if test "$file_magic_cmd" = "$MAGIC_CMD"; then
      AC_PATH_MAGIC
    fi
    ;;
  esac

_LT_REQUIRED_DARWIN_CHECKS

AC_PROVIDE_IFELSE([AC_LIBTOOL_DLOPEN], enable_dlopen=yes, enable_dlopen=no)
AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
  enable_win32_dll=yes, enable_win32_dll=no)

AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
  [avoid locking (might break parallel builds)])])
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

AC_ARG_WITH([pic],
  [AC_HELP_STRING([--with-pic],
  [try to use only PIC/non-PIC objects @:<default=use both>:@])],
  [pic_mode="$withval"],
  [pic_mode=default])
test -z "$pic_mode" && pic_mode=default

# Use C for the default configuration in the libtool script
tagname=
AC_LIBTOOL_LANG_C_CONFIG
_LT_AC_TAGCONFIG
])# AC_LIBTOOL_SETUP
# _LT_AC_SYS_COMPILER
# -------------------
AC_DEFUN([_LT_AC_SYS_COMPILER],
[AC_REQUIRE([AC_PROG_CC])dnl

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC
)
# _LT_AC_SYS_COMPILER

# _LT_CC_BASENAME(CC)
# -------------------
# Calculate cc_basename. Skip known compiler wrappers and cross-prefix.
AC_DEFUN([_LT_CC_BASENAME(CC)],
[for cc_temp in $1""; do
  case $cc_temp in
    compile | *\[\[/\]/\]compile | ccache | *\[\[/\]/\]ccache ) ;;
    distcc | *\[\[/\]/\]distcc | purify | *\[\[/\]/\]purify ) ;;
    \(\(.*\) ;;
    *) break;;
  esac
done
cc_basename='$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-%%"'
]
# _LT_COMPILER_BOILERPLATE
# ------------------------
# Check for compiler boilerplate output or warnings with
# the simple compiler test code.
AC_DEFUN([_LT_COMPILER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
ac_outfile=conftest.$ac_objext
echo "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ */+d' >conftest.err
_LT_compiler_boilerplate='cat conftest.err'
$rm conftest*
]
# _LT_COMPILER_BOILERPLATE

# _LT_LINKER_BOILERPLATE
# ----------------------
# Check for linker boilerplate output or warnings with
# the simple link test code.
AC_DEFUN([_LT_LINKER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])]
ac_outfile=conftest.$ac_objext
echo "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ */d' >conftest.err
_Lt_linker_boilerplate='cat conftest.err'
rm -rf conftest*
})# _LT_LINKER_BOILERPLATE

# _LT_REQUIRED_DARWIN_CHECKS
# --------------------------
# Check for some things on darwin
AC_DEFUN([_LT_REQUIRED_DARWIN_CHECKS],[
    case $host_os in
        rhapsody* | darwin*)
            AC_CHECK_TOOL([DSYMUTIL], [dsymutil], [:])
            AC_CHECK_TOOL([NMEDIT], [nmedit], [:])
            AC_CACHE_CHECK([for -single_module linker flag], [lt_cv_apple_cc_single_mod],
                [lt_cv_apple_cc_single_mod=no]
                if test -z "${LT_MULTI_MODULE}"; then
                    # By default we will add the -single_module flag. You can override
                    # by either setting the environment variable LT_MULTI_MODULE
                    # non-empty at configure time, or by adding -multi_module to the
                    # link flags.
                    echo "int foo(void){return 1;}" > conftest.c
                    $LTCC $LTCFLAGS $LDFLAGS -o libconftest.dylib \
                    -dynamiclib ${wl}-single_module conftest.c
                    if test -f libconftest.dylib; then
                        lt_cv_apple_cc_single_mod=yes
                        rm -rf libconftest.dylib*
                    fi
                    rm conftest.c
                fi]
            AC_CACHE_CHECK([for -exported_symbols_list linker flag], [lt_cv_ld_exported_symbols_list],
                [lt_cv_ld_exported_symbols_list=no]
                save_LDFLAGS=$LDFLAGS
                echo "_main" > conftest.sym
                LDFLAGS="$LDFLAGS -Wl,-exported_symbols_list,conftest.sym"
                AC_LINK_IFELSE([AC_LANG_PROGRAM([],[])],
                    [lt_cv_ld_exported_symbols_list=yes],
                    [lt_cv_ld_exported_symbols_list=no]
                LDFLAGS="$save_LDFLAGS"
            )
        esac
    esac
])}
case $host_os in
    rhapsody* | darwin1.[[0123]])
        _lt_dar_allow_undefined=${wl}-undefined ${wl}suppress' ;;
    darwin1.*)
        _lt_dar_allow_undefined=${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
    darwin*)
        # if running on 10.5 or later, the deployment target defaults
        # to the OS version, if on x86, and 10.4, the deployment
        # target defaults to 10.4. Don't you love it?
        case ${MACOSX_DEPLOYMENT_TARGET-10.0},$host in
            10.0,*86*-darwin8*|10.0,*-darwin[[91]]*)
                _lt_dar_allow_undefined=${wl}-undefined ${wl}dynamic_lookup' ;;
            10.[[012]]*)
                _lt_dar_allow_undefined=${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
            10.*)
                _lt_dar_allow_undefined=${wl}-undefined ${wl}dynamic_lookup' ;;
            esac
            ;;
        esac
        if test "$lt_cv_apple_cc_single_mod" = "yes"; then
            _lt_dar_single_mod='$single_module'
        fi
        if test "$lt_cv ld.exported_symbols_list" = "yes"; then
            _lt_dar_export_syms=' ${wl}-exported_symbols_list,$output_objdir/${libname}-symbols.expsym'
        else
            _lt_dar_export_syms='~$NMEDIT -s $output_objdir/${libname}-symbols.expsym \${lib}"
        fi
        if test "$DSYMUTIL" != ";"; then
            _lt_dsymutil="~$DSYMUTIL \$lib || :"
        else
            _lt_dsymutil=
        fi
        ;;
    esac
)

# _LT_AC_SYS_LIBPATH_AIX
# ----------------------
# Links a minimal program and checks the executable
# for the system default hardcoded library path. In most cases,
# this is /usr/lib:/lib, but when the MPI compilers are used
# the location of the communication and MPI libs are included too.
# If we don't find anything, use the default library path according
# to the aix ld manual.
AC_DEFUN([_LT_AC_SYS_LIBPATH_AIX]),
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_LINK_IFELSE([AC_LANG_PROGRAM],
lt_aix_libpath_sed=')
#!/Import File Strings/

/\^$/ { 
  /^0(.*?)$/A{1}/
  p
}
}

aix_libpath='dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e "s/aix_libpath/'
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then
  aix_libpath='dump -HX64 conftest$ac_exeext 2>/dev/null | $SED -n -e "s/aix_libpath/'
fi
}]
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi
]
)
)

# _LT_AC_SYS_LIBPATH_AIX

# _LT_AC_SHELL_INIT(ARG)
# ------------------------
AC_DEFUN([_LT_AC_SHELL_INIT],
[ifdef([AC_DIVERSION_NOTICE],
  [AC_DIVERT_PUSH(AC_DIVERSION_NOTICE)],
  [AC_DIVERT_PUSH(NOTICE)])
$1
AC_DIVERT_POP]
)

# _LT_AC_PROG_ECHO_BACKSLASH
# --------------------------
# Add some code to the start of the generated configure script which
# will find an echo command which doesn't interpret backslashes.
AC_DEFUN([_LT_AC_PROG_ECHO_BACKSLASH],[

# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

case X$ECHO in
  X*--fallback-echo)
    # Remove one level of quotation (which was required for Make).
    ECHO=echo "$ECHO"| sed 's,\\[$]0,[$]0,'
      ::
    esac

echo=${ECHO-echo}
if test X[X[$]1] = X--no-reexec; then
  # Discard the --no-reexec flag, and continue.
  shift
elif test X[X[$]1] = X--fallback-echo; then
  # Avoid inline document here, it may be left over
elif test "X'($echo \t') 2>/dev/null'" = 'X\t' ; then
  # Yippee, $echo works!
  :
else
  # Restart under the correct shell.
  exec $SHELL "[$$0" --no-reexec $[1+"$$@"]
fi

if test "X$$1" = X--fallback-echo; then
  # used as fallback echo
  shift
  cat <<EOF
  $$
EOF
  exit 0
fi

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

if test -z "$ECHO"; then
  if test "X$$[echo_test_string+set]" != Xset; then
    # find a string as large as possible, as long as the shell can cope with it
    for cmd in 'sed 50q $$0' 'sed 20q $$0' 'sed 10q $$0' 'sed 2q $$0' 'echo test'; do
      # expected sizes: less than 2Kb, 1Kb, 512 bytes, 16 bytes, ...
      if (echo_test_string='eval $cmd') 2>/dev/null &&
        echo_test_string='eval $cmd' &&
        (test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
      then
        break
      fi
    done
  fi
fi

if test "X($echo \t) 2>/dev/null" = 'X\t' &&
  echo_testing_string=$(echo "$echo_test_string") 2>/dev/null' &&
  test "X$echo_testing_string" = "$echo_test_string"; then
  :
else
  # The Solaris, AIX, and Digital Unix default echo programs unquote
  # backslashes. This makes it impossible to quote backslashes using
  # echo "$something" | sed 's/\\/\\/g'
  #
  # So, first we look for a working echo in the user's PATH.

  lt_save_ifs="IFS"); IFS=$PATH_SEPARATOR

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for dir in $PATH /usr/ucb; do
  IFS="$lt_save_ifs"
  if (test -f $dir/echo || test -f $dir/echo$ac_exeext) &&
    test "X'($dir/echo \t') 2>/dev/null" = 'X\t' &&
    echo_testing_string='($dir/echo "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
    echo="$dir/echo"
    break
  fi
done
IFS="$lt_save_ifs"

if test "X$echo" = Xecho; then
  # We didn't find a better echo, so look for alternatives.
  if test "X'(print -r \t') 2>/dev/null" = 'X\t' &&
    echo_testing_string='(print -r "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
    # This shell has a builtin print -r that does the trick.
    echo='print -r'
  elif (test -f /bin/ksh || test -f /bin/ksh$ac_exeext) &&
    test "X$CONFIG_SHELL" != X/bin/ksh; then
    # If we have ksh, try running configure again with it.
    ORIGINAL_CONFIG_SHELL=${CONFIG_SHELL-/bin/sh}
    export ORIGINAL_CONFIG_SHELL
    CONFIG_SHELL=/bin/ksh
    export CONFIG_SHELL
    exec $CONFIG_SHELL "[$\]0" --no-reexec ${1+"[$\]@"}
  else
    # Try using printf.
    echo='printf %s\n'
    if test "X($echo \t') 2>/dev/null" = 'X\t' &&
    echo_testing_string='($echo "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
    # Cool, printf works
    : 
    elif echo_testing_string='($ORIGINAL_CONFIG_SHELL "[$\]0" --fallback-echo \t') 2>/dev/null' &&
    test "X$echo_testing_string" = 'X\t' &&
    echo_testing_string='($ORIGINAL_CONFIG_SHELL "[$\]0" --fallback-echo "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
    CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
    export CONFIG_SHELL
    SHELL="$CONFIG_SHELL"
    export SHELL
    echo="$CONFIG_SHELL [$\]0 --fallback-echo"
    elif echo_testing_string='($CONFIG_SHELL "$\]0" --fallback-echo \t') 2>/dev/null' &&
    test "X$echo_testing_string" = 'X\t' &&
    echo_testing_string='($CONFIG_SHELL "$\]0" --fallback-echo "$echo_test_string") 2>/dev/null' &&

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test "X$echo_testing_string" = "X$echo_test_string"; then
  echo="$CONFIG_SHELL [[$]0 --fallback-echo"
else
  # maybe with a smaller string...
  prev=
fi
for cmd in 'echo test' 'sed 2q "[[$]0" 'sed 10q "[[$]0" 'sed 20q "[[$]0" 'sed 50q "[[$]0"'; do
  if (test "X$echo_test_string" = "X'eval $cmd'") 2>/dev/null
    then
      break
  fi
  prev="$cmd"
done
if test "$prev" != 'sed 50q "[[$]0"'; then
echo_test_string='eval $prev'
export echo_test_string
exec ${ORIGINAL_CONFIG_SHELL-"/bin/sh"} "$[[$]0" ${1+"[$$]@"}
else
  # Oops. We lost completely, so just stick with echo.
  echo=echo
fi
fi
fi
fi
fi
fi
fi
fi
if test "X$ECHO" = "X$CONFIG_SHELL [[$]0 --fallback-echo"; then
  ECHO="$CONFIG_SHELL \$\[$]0 --fallback-echo"
fi
AC_SUBST(ECHO)
AC_DEFUN([_LT_AC_LOCK],
[AC_ARG_ENABLE([libtool-lock],
[AC_HELP_STRING([--disable-libtool-lock],
[avoid locking (might break parallel builds)])])
if test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes
# Some flags need to be propagated to the compiler or linker for good

# libtool support.
case $host in
  ia64-*)
    # Find out which ABI we are using.
    echo 'int i;' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
      case '/usr/bin/file conftest.$ac_objext' in
      *ELF-32*)
        HPUX_IA64_MODE="32"
        ;;
      *ELF-64*)
        HPUX_IA64_MODE="64"
        ;;
      esac
    fi
    rm -rf conftest*
    ;;
  *-*-irix6*)
    # Find out which ABI we are using.
    echo 'int __oline__ configure' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
      if test "$lt_cv_prog_gnu_ld" = yes; then
        case '/usr/bin/file conftest.$ac_objext' in
        *32-bit*)
          LD="${LD-ld} -melf32bsmip"
          ;;
        *N32*)
          LD="${LD-ld} -melf32bmip32"
          ;;
        *64-bit*)
          LD="${LD-ld} -melf64b mip"
          ;;
        esac
      else
        case '/usr/bin/file conftest.$ac_objext' in
        *32-bit*)
          LD="${LD-ld} -32"
          ;;
        *N32*)
          LD="${LD-ld} -n32"
          ;;
        *64-bit*)
          LD="${LD-ld} -64"
          ;;
        esac
      fi
    fi
    rm -rf conftest*
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
case '/usr/bin/file conftest.o' in
  *32-bit*)
    case $host in
      x86_64-*kfreebsd*-gnu)
        LD="${LD-ld} -m elf_i386_fbsd"
      ;;
      x86_64-*linux*)
        LD="${LD-ld} -m elf_i386"
      ;;
      ppc64-*linux*[powerpc64-*linux*)
        LD="${LD-ld} -m elf32ppclinux"
      ;;
      s390x-*linux*)
        LD="${LD-ld} -m elf_s390"
      ;;
      sparc64-*linux*)
        LD="${LD-ld} -m elf32_sparc"
      ;;
      esac
  ;;
  *64-bit*)
    case $host in
      x86_64-*kfreebsd*-gnu)
        LD="${LD-ld} -m elf_x86_64_fbsd"
      ;;
      x86_64-*linux*)
        LD="${LD-ld} -m elf_x86_64"
      ;;
      ppc*-linux*[powerpc*-linux*)
        LD="${LD-ld} -m elf64ppc"
      ;;
      s390*-linux*)
        LD="${LD-ld} -m elf64_s390"
      ;;
      sparc*-linux*)
        LD="${LD-ld} -m elf64_sparc"
      ;;
      esac
    esac
fi
rm -rf conftest*

# On SCO OpenServer 5, we need -belf to get full-featured binaries.
SAVE_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -belf"
AC_CACHE_CHECK([whether the C compiler needs -belf], lt_cv_cc_needs_belf,
[AC_LANG_PUSH(C)
 AC_TRY_LINK([], [], [lt_cv_cc_needs_belf=yes], [lt_cv_cc_needs_belf=no])
 AC_LANG_POP()]
if test x"$lt_cv_cc_needs_belf" != x"yes"; then
 # this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
 CFLAGS="$SAVE_CFLAGS"
fi
;
;
sparc*-*-solaris*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
 case /usr/bin/file conftest.o in
  *64-bit*)
   case $lt_cv_prog_gnu_ld in
    yes*) LD="${LD-ld} -m elf64_sparc" ;;
    *)
     if ${LD-ld} -64 -r -o conftest2.o conftest.o >/dev/null 2>&1; then
      LD="${LD-ld} -64"
     fi
   esac
 esac
fi
rm -rf conftest*

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
[*-*-cygwin* | *-*-mingw* | *-*-pw32*])
AC_CHECK_TOOL(DLLTOOL, dlltool, false)
AC_CHECK_TOOL(AS, as, false)
AC_CHECK_TOOL(OBJDUMP, objdump, false)
fi
esac
need_locks="$enable_libtool_lock"
}

]}

# _LT_AC_LOCK
# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,  
# [OUTPUT-FILE], [ACTION-SUCCESS], [ACTION-FAILURE])
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION],  
[AC_REQUIRE([LT_AC_PROG_SED])]  
AC_CACHE_CHECK([$1], [$2],  
[$2=no  
ifelse([$4], [ac_outfile=conftest.$ac_objext], [ac_outfile=$4])  
echo "$lt_simple_compile_test_code" > conftest.$ac_ext  
lt_compiler_flag="$3"  
# Insert the option either (1) after the last *FLAGS variable, or  
# (2) before a word containing "conftest.", or (3) at the end.  
# Note that $ac_compile itself does not contain backslashes and begins  
# with a dollar sign (not a hyphen), so the echo should work correctly.  
# The option is referenced via a variable to avoid confusing sed.  
lt_compile=`echo "$ac_compile" | $SED  
-e 's:*FLAGS*{0,1} :&$lt_compiler_flag :; t'  
-e 's: [^ ]*conftest. : $lt_compiler_flag&:; t'  
-e 's:$: $lt_compiler_flag:"'  
(eval echo "\"$as_me:__oline__: $lt_compile\"" >&AS_MESSAGE_LOG_FD)  
(eval "$lt_compile" 2>conftest.err)  
ac_status=$?  
cat conftest.err >&AS_MESSAGE_LOG_FD  
echo "$as_me:__oline__: $? = $ac_status" >&AS_MESSAGE_LOG_FD  
if (exit $ac_status) && test -s "$ac_outfile"; then  
  # The compiler can only warn and ignore the option if not recognized  
  # So say no if there are warnings other than the usual output.  
  $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d >conftest.exp  
  $SED '/^$/d; /^ *+d' conftest.err >conftest.er2  
  if test ! -s conftest.er2 || diff conftest.exp conftest.er2 >/dev/null; then  
    $2=yes  
    fi  
    fi  
    $rm conftest*  
  )  
  if test x"[$$2" = xyes; then  
    ifelse([$5], [ ], [5])  
  else  
    ifelse([$6], [ ], [6])  
    fi  
  )  
  # AC_LIBTOOL_COMPILER_OPTION
  
  # AC_LIBTOOL_LINKER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,  

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# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_LINKER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])]
AC_CACHE_CHECK([$1], [$2], [$2=no
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $3"
echo "$lt_simple_link_test_code" > conftest.$ac_ext
if (eval $ac_link 2>conftest.err) && test -s conftest$ac_exeext; then
  # The linker can only warn and ignore the option if not recognized
  # So say no if there are warnings
  if test -s conftest.err; then
    # Append any errors to the config.log.
cat conf$test.err 1>&AS_MESSAGE_LOG_FD
$echo "$lt_simple_link_test_code" | $Xsed -e '/^$d' > conftest.exp
$SED '/^$/d;' conftest.err >conftest.err2
if diff conftest.exp conftest.err2 >/dev/null; then
  $2=yes
fi
else
  $2=yes
fi
fi
$rm -r conftest*
LDFLAGS="$save_LDFLAGS"
])
if test x"[$][2]" = xyes; then
  ifelse([4], , :, [4])
else
  ifelse([5], , :, [5])
fi
])# AC_LIBTOOL_LINKER_OPTION

# AC_LIBTOOL_SYS_MAX_CMD_LEN
# --------------------------
AC_DEFUN([AC_LIBTOOL_SYS_MAX_CMD_LEN],
[# find the maximum length of command line arguments
AC_MSG_CHECKING([the maximum length of command line arguments])
AC_CACHE_VAL([lt_cv_sys_max_cmd_len], [dnl
i=0
teststring="ABCD"
case $build_os in
  msdosdjgpp*)
On DJGPP, this test can blow up pretty badly due to problems in libc
(any single argument exceeding 2000 bytes causes a buffer overrun
during glob expansion). Even if it were fixed, the result of this
check would be larger than it should be.
l_cv_sys_max_cmd_len=12288;  # 12K is about right

gnu*)
# Under GNU Hurd, this test is not required because there is
# no limit to the length of command line arguments.
# Libtool will interpret -l as no limit whatsoever
l_cv_sys_max_cmd_len=-1;


cygwin* | mingw*)
# On Win9x/ME, this test blows up -- it succeeds, but takes
# about 5 minutes as the teststring grows exponentially.
# Worse, since 9x/ME are not pre-emptively multitasking,
# you end up with a "frozen" computer, even though with patience
# the test eventually succeeds (with a max line length of 256k).
# Instead, let's just punt: use the minimum linelength reported by
# all of the supported platforms: 8192 (on NT/2K/XP).
l_cv_sys_max_cmd_len=8192;

amigaos*)
# On AmigaOS with pdksh, this test takes hours, literally.
# So we just punt and use a minimum line length of 8192.
l_cv_sys_max_cmd_len=8192;

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
# This has been around since 386BSD, at least. Likely further.
if test -x /sbin/sysctl; then
   l_cv_sys_max_cmd_len="/sbin/sysctl -n kern.argmax"
elsif test -x /usr/sbin/sysctl; then
   l_cv_sys_max_cmd_len="/usr/sbin/sysctl -n kern.argmax"
else
   l_cv_sys_max_cmd_len=65536# usable default for all BSDs
fi
# And add a safety zone
l_cv_sys_max_cmd_len='expr $l_cv_sys_max_cmd_len / 4'
l_cv_sys_max_cmd_len='expr $l_cv_sys_max_cmd_len * 3'

interix*)
# We know the value 262144 and hardcode it with a safety zone (like BSD)
l_cv_sys_max_cmd_len=196608
osf*)
    # Dr. Hans Ekkehard Plesser reports seeing a kernel panic running configure
    # due to this test when exec_disable_arg_limit is 1 on Tru64. It is not
    # nice to cause kernel panics so let's avoid the loop below.
    # First set a reasonable default.
    lt_cv_sys_max_cmd_len=16384
    
    # if test -x /sbin/sysconfig; then
    case '/sbin/sysconfig -q proc exec_disable_arg_limit' in
    *1*) lt_cv_sys_max_cmd_len=-1 ;;
    esac
    fi
    ;;
sco3.2v5*)
    lt_cv_sys_max_cmd_len=102400
    ::
    sysv5* | sco5v6* | sysv4.2uw2*)
    kargmax=’grep ARG_MAX /etc/conf/cf.d/stune 2>/dev/null’
    if test -n "$kargmax”; then
    lt_cv_sys_max_cmd_len=’echo $kargmax | sed ‘s/.*[[]]//’’
    else
    lt_cv_sys_max_cmd_len=32768
    fi
    ::: *
    lt_cv_sys_max_cmd_len=(getconf ARG_MAX) 2> /dev/null’
    if test -n ”$lt_cv_sys_max_cmd_len”; then
    lt_cv_sys_max_cmd_len=expr $lt_cv_sys_max_cmd_len \* 4’
    lt_cv_sys_max_cmd_len=expr $lt_cv_sys_max_cmd_len \* 3’
    else
    SHELL=${SHELL=${CONFIG_SHELL-/bin/sh}}
    while (test 'X’’$SHELL [S]$0 --fallback-echo ”X$teststring” 2>/dev/null’
    = ”XX$teststring”) >/dev/null 2>&1 &&
    new_result=expr ”X$teststring” : ”.*” 2>&1 &&
    lt_cv_sys_max_cmd_len=$new_result &&
    test $i != 17 # 1/2 MB should be enough
    do
    i=’expr $i + 1’
    teststring=$teststring$teststring
    done
teststring=
    # Add a significant safety factor because C++ compilers can tack on massive
    # amounts of additional arguments before passing them to the linker.
    # It appears as though 1/2 is a usable value.
    lt_cv_sys_max_cmd_len=’expr $lt_cv_sys_max_cmd_len \* 2’
    fi
if test -n $lt_cv_sys_max_cmd_len ; then
  AC_MSG_RESULT($lt_cv_sys_max_cmd_len)
else
  AC_MSG_RESULT(none)
fi
)# AC_LIBTOOL_SYS_MAX_CMD_LEN

# _LT_AC_CHECK_DLFCN
# ------------------
AC_DEFUN([_LT_AC_CHECK_DLFCN],
[AC_CHECK_HEADERS(dlfcn.h)dnl
])# _LT_AC_CHECK_DLFCN

# _LT_AC_TRY_DLOPEN_SELF (ACTION-IF-TRUE, ACTION-IF-TRUE-W-USCORE,
# ACTION-IF-FALSE, ACTION-IF-CROSS-COMPILING)
# -----------------------------
AC_DEFUN([_LT_AC_TRY_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "$cross_compiling" = yes; then :
  [$4]
else
  lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
  lt_status=$lt_dlunknown
  cat > conftest.$ac_ext <<EOF
  [#line __oline__ "configure"
  #include "confdefs.h"
  #include "dlfcn.h"
  #if HAVE_DLFCN_H
  #include <dlfcn.h>
  #endif

  #ifdef RTLD_GLOBAL
  # define LT_DLGLOBAL RTLD_GLOBAL
  #else
  # ifdef DL_GLOBAL
  # define LT_DLGLOBAL DL_GLOBAL
  # else
  # define LT_DLGLOBAL 0
  # endif
  #endif

  EOF
  #endif
  cat >> conftest.$ac_ext
  fi
)
/* We may have to define LT_DLLAZY_OR_NOW in the command line if we find out it does not work in some platform. */
#endif
#endif
#endif
#ifdef __cplusplus
extern "C" void exit (int);
#endif

void fnord() { int i=42; }
int main () {
  void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
  int status = $lt_dlunknown;
  if (self) {
    if (dlsym (self,"fnord")) status = $lt_dlno_uscore;
    else if (dlsym (self,"_fnord")) status = $lt_dlneed_uscore;
    /* dlclose (self); */ /*
    } else
    puts (dlerror ());
    exit (status);
  }]
EOF
if AC_TRY_EVAL(ac_link) && test -s conftest$ac_exeext 2>/dev/null; then
  (.conftest; exit; ) >&AS_MESSAGE_LOG_FD 2>/dev/null
  lt_status=$?
  case x$lt_status in
x$lt_dlno_uscore) $1 ;;
x$lt_dlnneed_uscore) $2 ;;
x$lt_dlunknown|x*) $3 ;;
esac
else :
    # compilation failed
    $3
fi
fi
rmdir -fr conftest*
) # _LT_AC_TRY_DLOPEN_SELF

# AC_LIBTOOL_DLOPEN_SELF
# ----------------------
AC_DEFUN([AC_LIBTOOL_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "x$enable_dlopen" != xyes; then
    enable_dlopen=unknown
enable_dlopen_self=unknown
enable_dlopen_self_static=unknown
else
    lt_cv_dlopen=no
    lt_cv_dlopen_libs=
    case $host_os in
beos*)
    lt_cv_dlopen="load_add_on"
    lt_cv_dlopen_libs=
    lt_cv_dlopen_self=yes
    ;;
mingw* | pw32*)
    lt_cv_dlopen="LoadLibrary"
    lt_cv_dlopen_libs=
    ;;
cygwin*)
    lt_cv_dlopen="dlopen"
    lt_cv_dlopen_libs=
    ;;
darwin*)
    # if libdl is installed we need to link against it
    AC_CHECK_LIB([dl], [dlopen],
    [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],[
    lt_cv_dlopen="dyld"
    lt_cv_dlopen_libs=

lt_cv_dlopen_self=yes
)
;

*)
AC_CHECK_FUNC([shl_load],
[lt_cv_dlopen="shl_load"],
[AC_CHECK_LIB([dld], [shl_load],
[lt_cv_dlopen="shl_load" lt_cv_dlopen_libs="-ldld"],
[AC_CHECK_FUNC([dlopen],
[lt_cv_dlopen="dlopen"],
[AC_CHECK_LIB([dld], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
[AC_CHECK_LIB([svld], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-lsvld"],
[AC_CHECK_LIB([dld], [dld_link],
[lt_cv_dlopen="dld_link" lt_cv_dlopen_libs="-ldld"]))
)]]))
)
)
)
)
)

esac

if test "x$lt_cv_dlopen" != xno; then
  enable_dlopen=yes
else
  enable_dlopen=no
fi

case $lt_cv_dlopen in
dlopen)
  save_CPPFLAGS="$CPPFLAGS"
test "x$ac_cv_header_dlfcn_h" = xyes && CPPFLAGS="$CPPFLAGS -DHAVE_DLFCN_H"

  save_LDFLAGS="$LDFLAGS"
  wl=$lt_prog_compiler_wl eval LDFLAGS="\$LDFLAGS $export_dynamic_flag_spec"

  save_LIBS="$LIBS"
  LIBS="$lt_cv_dlopen_libs $LIBS"

  AC_CACHE_CHECK([whether a program can dlopen itself],
lt_cv_dlopen_self, [dnl
  _LT_AC_TRY_DLOPEN_SELF(
    lt_cv_dlopen_self=yes, lt_cv_dlopen_self=yes, 
    lt_cv_dlopen_self=no, lt_cv_dlopen_self=cross)
  )]
if test "x$lt_cv_dlopen_self" = xyes; then
    wl=$lt_prog_compiler wl eval LDFLAGS="\"$LDFLAGS $lt_prog_compiler_static\"
    AC_CACHE_CHECK([whether a statically linked program can dlopen itself],
    lt_cv_dlopen_self_static, [dnl
    _LT_AC_TRY_DLOPEN_SELF(
    lt_cv_dlopen_self_static=yes, lt_cv_dlopen_self_static=yes,
    lt_cv_dlopen_self_static=no, lt_cv_dlopen_self_static=cross)
    ])
fi

CPPFLAGS="$save_CPPFLAGS"
LDFLAGS="$save_LDFLAGS"
LIBS="$save_LIBS"
;;
esac

case $lt_cv_dlopen_self in
    yes|no) enable_dlopen_self=$lt_cv_dlopen_self ;;
    *) enable_dlopen_self=unknown ;;
esac

case $lt_cv_dlopen_self_static in
    yes|no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;;
    *) enable_dlopen_self_static=unknown ;;
esac

})# AC_LIBTOOL_DLOPEN_SELF

# AC_LIBTOOL_PROG_CC_C_O([TAGNAME])
# "-----------------------------"
# Check to see if options -c and -o are simultaneously supported by compiler
AC_DEFUN([AC_LIBTOOL_PROG_CC_C_O],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([LT_AC_SYS_COMPILER])dnl
AC_CACHE_CHECK([if $compiler supports -c -o file.$ac_objext],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)]=no
$rm -r conftest 2>/dev/null
mkdir conftest
cd conftest
mkdir out
echo "$lt_simple_compile_test_code" > conftest.$ac_ext

lt_compiler_flag="-o out/conftest2.$ac_objext"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
lit_compile='echo "$ac_compile" | $SED \
-e s:.*\{0,1\} \&lt_compiler_flag \; t' \
-e s: \[^\] \*conftest\. \&lt_compiler_flag& \; t' \
-e s: $: \&lt_compiler_flag:"
(eval echo "\"\$as_me:__oline__: \$lt_compile\"" >&AS_MESSAGE_LOG_FD)
(eval "\$lt_compile" 2>&out/conf.test.err)
ac_status=$?
cat out/conf.test.err >&AS_MESSAGE_LOG_FD
echo "$as_me:__oline__: \$? = $ac_status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) & test -s out/conf.test2.$ac_objext
then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings
  $echo "X\$_lt_compiler_boilerplate" | $Sed -e '/^$/d' > out/conf.test.exp
  $SED '/^$/d; /^ */d' out/conf.test.err >out/conf.test.err2
  if test ! -s out/conf.test.err2 || diff out/conf.test.exp out/conf.test.err2 >/dev/null; then
    _LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes
fi
fi
chmod u+w . 2>&AS_MESSAGE_LOG_FD
$rm confest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
$rm out/* && rmdir out
cd ..
rmdir confest
$rm confest*

)# AC_LIBTOOL_PROG_CC_C_O

# AC_LIBTOOL_SYS_HARD_LINK_LOCKS([TAGNAME])
# ------------------------------------------
# Check to see if we can do hard links to lock some files if needed
AC_DEFUN([AC_LIBTOOL_SYS_HARD_LINK_LOCKS],
[AC_REQUIRE([_LT_AC_LOCK])dnl

hard_links="nottested"
if test "$_LT_AC_TAGVAR(lt_cv_prog Compiler_c_o, $1)" = no & test "$need_locks" != no; then
  # do not overwrite the value of need_locks provided by the user
  AC_MSG_CHECKING([if we can lock with hard links])
  hard_links=yes
  $rm confest*
  ln confest.a confest.b 2>/dev/null && hard_links=no
  touch confest.a
}
ln conftest.a conftest.b 2>&5 || hard_links=no
In conftest.a conftest.b 2>/dev/null &&& hard_links=no
AC_MSG_RESULT([$hard_links])
if test "$hard_links" = no; then
    AC_MSG_WARN(['$CC' does not support '-c -o', so 'make -j' may be unsafe])
    need_links=warn
fi
else
    need_links=no
fi
})# AC_LIBTOOL_SYS_HARD_LINK_LOCKS

# AC_LIBTOOL_OBJDIR
# ------------------
# AC_DEFUN([AC_LIBTOOL_OBJDIR],
# [AC_CACHE_CHECK([for objdir], [lt_cv_objdir],
# [rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
    lt_cv_objdir=.libs
else
    # MS-DOS does not allow filenames that begin with a dot.
    lt_cv_objdir=_libs
fi
rmdir .libs 2>/dev/null
)objdir=$lt_cv_objdir
})# AC_LIBTOOL_OBJDIR

# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH([TAGNAME])
# -----------------------------------------------
# Check hardcoding attributes.
# AC_DEFUN([AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH],
# [AC_MSG_CHECKING([how to hardcode library paths into programs])
_LT_AC_TAGVAR(hardcode_action, $1)=
if test -n "$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)" ||
    test -n "$_LT_AC_TAGVAR(runpath_var, $1)" ||
    test "X$_LT_AC_TAGVAR(hardcode_automatic, $1)" = "$yes" ; then
    # We can hardcode non-existant directories.
    if test "$$_LT_AC_TAGVAR(hardcode_direct, $1)" != no &&
        # If the only mechanism to avoid hardcoding is shlibpath_var, we
        # have to relink, otherwise we might link with an installed library
        # when we should be linking with a yet-to-be-installed one
        ## test "$$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)" != no &&
        test "$$_LT_AC_TAGVAR(hardcode_minus_L, $1)" != no; then
            # Linking always hardcodes the temporary library directory.

_LT_AC_TAGVAR(hardcode_action, $1)=relink
else
  # We can link without hardcoding, and we can hardcode nonexisting dirs.
  _LT_AC_TAGVAR(hardcode_action, $1)=immediate
fi
else
  # We cannot hardcode anything, or else we can only hardcode existing
  # directories.
  _LT_AC_TAGVAR(hardcode_action, $1)=unsupported
fi
AC_MSG_RESULT([$LT_AC_TAGVAR(hardcode_action, $1)])

if test "$_LT_AC_TAGVAR(hardcode_action, $1)" = relink; then
  # Fast installation is not supported
  enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
  test "$enable_shared" = no; then
  # Fast installation is not necessary
  enable_fast_install=needless
fi
])# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH

# AC_LIBTOOL_SYS_LIB_STRIP
# ------------------------
AC_DEFUN([AC_LIBTOOL_SYS_LIB_STRIP],
[striplib=
old_striplib=
AC_MSG_CHECKING([whether stripping libraries is possible])
if test -n "$STRIP" && $STRIP -V 2>&1 | grep "GNU strip" >/dev/null; then
test -z "$old_striplib" && old_striplib="$STRIP --strip-debug"
test -z "$striplib" && striplib="$STRIP --strip-unneeded"
AC_MSG_RESULT([yes])
else
  # FIXME - insert some real tests, host_os isn't really good enough
case $host_os in
darwin*)
  if test -n "$STRIP" ; then
    striplib="$STRIP -x"
    old_striplib="$STRIP -S"
    AC_MSG_RESULT([yes])
  else
    AC_MSG_RESULT([no])
  fi
  ;;
  *)
    AC_MSG_RESULT([no])
  ;;
  esac
  AC_MSG_RESULT([no])
  ;;
]# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH
esac
fi
)

# AC_LIBTOOL_SYS_LIB_STRIP

# AC_LIBTOOL_SYS_DYNAMIC_LINKER
# -----------------------------
# PORTME Fill in your ld.so characteristics
AC_DEFUN([AC_LIBTOOL_SYS_DYNAMIC_LINKER],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([dynamic linker characteristics])
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
m4_if($1,[,],
if test "SGCC" = yes; then
  case $host_os in
    darwin*) lt_awk_arg="/^libraries:/,LR/" ;;
    *) lt_awk_arg="/^libraries:/" ;;
esac
lt_search_path_spec="$CC -print-search-dirs | awk "$lt_awk_arg $SED -e "s/\^libraries://," -e "s,=/,/,g""
  if echo "$lt_search_path_spec" | grep ';' >/dev/null ; then
    # if the path contains ";" then we assume it to be the separator
    # otherwise default to the standard path separator (i.e. ":") - it is
    # assumed that no part of a normal pathname contains ";" but that should
    # okay in the real world where ";" in dirpaths is itself problematic.
    lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e 's/;/ /g''
  else
    lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e "s/\$PATH_SEPARATOR/ /g"'
  fi
# Ok, now we have the path, separated by spaces, we can step through it
# and add multilib dir if necessary.
lt_tmp_lt_search_path_spec=
lt_multi_os_dir="$CC CPPFLAGS CFLAGS SLD_FLAGS -print-multi-os-directory 2>/dev/null"
for lt_sys_path in $lt_search_path_spec; do
  if test -d "$lt_sys_path/$lt_multi_os_dir"; then
    lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path/$lt_multi_os_dir"
  else
    lt_search_path_spec="$lt_search_path_spec $lt_sys_path/$lt_multi_os_dir"
  fi

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test -d "$lt_sys_path" && \
l_t_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path"
fi
done
lt_search_path_spec='echo $lt_tmp_lt_search_path_spec | awk 'BEGIN {RS=" "; FS="/|
"}; {
lt_foo=""
lt_count=0;
for (lt_i = NF; lt_i > 0; lt_i--) {
   if ($lt_i != "" || $lt_i == ".") {
      if ($lt_i == "..") {
         lt_count++;
      } else {
         if (lt_count == 0) {
            lt_foo="/" $lt_i lt_foo;
         } else {
            lt_count--;
         }
      }
   } else {
      if (lt_count == 0) {
         lt_foo="" $lt_i lt_foo;
      } else {
         lt_count--;
      }
   }
}
}
if (lt_foo != "") { lt_freq[[lt_foo]]++; }
if (lt_freq[[lt_foo]] == 1) { print lt_foo; }
"
sys_lib_search_path_spec='echo $lt_search_path_spec'
else
sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
f1)
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -set_version
# flags to be left without arguments
need_version=unknown
case $host_os in
aix3*)
   version_type=linux
   library_names_spec='${libname}${release}${shared_ext}$versuffix $libname.a'
   shlibpath_var=LIBPATH
   # AIX 3 has no versioning support, so we append a major version to the name.
   soname_spec='${libname}${release}${shared_ext}$major'
   ;;
   aix[[4-9]])
   version_type=linux
   need_lib_prefix=no
need_version=no
hardcode_into_libs=yes
if test "$host_cpu" = ia64; then
  # AIX 5 supports IA64
  library_names_spec='"${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}$versuffix $libname${shared_ext}"'
  shlibpath_var=LD_LIBRARY_PATH
else
  # With GCC up to 2.95.x, collect2 would create an import file
  # for dependence libraries. The import file would start with
  # the line `#!/`. This would cause the generated library to
  # depend on `!`; always an invalid library. This was fixed in
  # development snapshots of GCC prior to 3.0.
  case $host_os in
  aix4 | aix4.[01] | aix4.[[01]].*)
    if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >= 97)' echo ' yes ' echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
    
    else
      can_build_shared=no
    fi
    ;;
  esac
  fi
  fi
  fi
  fi
  fi
  fi
  fi
  fi
  fi
  fi
  fi
else
  # AIX (on Power*) has no versioning support, so currently we can not hardcode correct
  # soname into executable. Probably we can add versioning support to
  # collect2, so additional links can be useful in future.
  if test "$aix_use_runtimelinking" = yes; then
    # If using run time linking (on AIX 4.2 or later) use lib<name>.so
    # instead of lib<name>.a to let people know that these are not
    # typical AIX shared libraries.
    library_names_spec='"${libname}${release}${shared_ext}$versuffix $libname${release}${shared_ext}$major $libname${shared_ext}"'
    else
      # We preserve .a as extension for shared libraries through AIX4.2
      # and later when we are not doing run time linking.
      library_names_spec='"${libname}${release}.a $libname.a"'
      soname_spec='"${libname}${release}${shared_ext}$major"'
  fi
  shlibpath_var=LIBPATH
  fi
  ;;

amigaos*)
  library_names_spec='"$libname.ixlibrary $libname.a"'
  # Create $libname.ixlibrary.a entries in /sys/libs.
  finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do libname=`echo "$lib" | SXsed -e \"\%s/%A/([^.]\%A)/\%s/%A/\"`; test $rm /sys/libs/$libname_ixlibrary.a; $show "cd /sys/libs && SLN_S
$lib ${libname}_ixlibrary.a”; cd /sys/libs & & $LN_S $lib ${libname}_ixlibrary.a || exit 1; done

beos*)
library_names_spec='$libname${shared_ext}'
dynamic_linker='$host_os ld.so'
shlibpath_var=LIBRARY_PATH
;

bsdi[[45]]*)
version_type=linux
need_version=no
library_names_spec='$libname$release$shared_ext$versuffix $libname$release$shared_ext$major $libname$shared_ext'
soname_spec='$libname$release$shared_ext$major'
finish_cmds='PATH="$PATH:/sbin" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH
sys_lib_dlssearch_path_spec="/shlib /usr/lib /usr/local/lib"
# the default ld.so.conf also contains /usr/contrib/lib and
# /usr/X11R6/lib ( /usr/X11 is a link to /usr/X11R6), but let us allow
# libtool to hard-code these into programs
;

cygwin* | mingw* | pw32*)
version_type=windows
shrext_cmds=".dll"
need_version=no
need_lib_prefix=no
case $GCC,$host_os in
yes,cygwin* | yes,mingw* | yes,pw32*)
library_names_spec='$libname.dll.a'
# DLL is installed to $(libdir)/../bin by postinstall_cmds
postinstall_cmds="basename $file'~ dlpath="$SHELL 2>&1 -c " $dir"\$base_file"\i;echo $dllname"~
dir=$destdir/'dirname $dlpath'~
test -d $dlldir || mkdir -p $dlldir~
$install_prog $dir/$dllname $dlldir/$dllname~
chmod a+x $dlldir/$dllname'
postuninstall_cmds="$SHELL 2>&1 -c " $file; echo $dllname"~
dlpath=$dlldir/$dllname~
$rmdir $dlpath'
shlibpath_overrides_runpath=yes

case $host_os in
cygwin*)
# Cygwin DLLs use 'cyg' prefix rather than 'lib'

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soname_spec="$\{libname\} \; echo \; \$\{release\} \; | \; \$SED -e \; \$\{versuffix\} $\{shared\_ext\}\"
\; sys\_lib\_search\_path\_spec="/usr\/lib /lib/w32api /lib /usr/local/lib"
\; ;;
mingw*)
# MinGW DLLs use traditional 'lib' prefix
soname_spec="$\{libname\} \; echo \; \$\{release\} \; | \; \$SED -e \; \$\{versuffix\} $\{shared\_ext\}\"
sys\_lib\_search\_path\_spec="$CC -print-search-dirs \; | \; grep "^libraries:" \; | \; \$SED -e \; \$\{libraries\:\":\" -e \; \$s,=/,/,g\""
if echo "$sys\_lib\_search\_path\_spec" \; | \; grep ';[c-zC-Z]:/' >/dev/null; then
# It is most probably a Windows format PATH printed by
# mingw gcc, but we are running on Cygwin. Gcc prints its search
# path with ; separators, and with drive letters. We can handle the
# drive letters (cygwin fileutils understands them), so leave them,
# especially as we might pass files found there to a mingw objdump,
# which wouldn't understand a cygwinified path. Ahh.
sys\_lib\_search\_path\_spec='echo "$sys\_lib\_search\_path\_spec" \; | \; \$SED -e \; \$\{/PATH\_SEPARATOR/\"$g"
else
sys\_lib\_search\_path\_spec='echo "$sys\_lib\_search\_path\_spec" \; | \; \$SED -e \; \$\{/PATH\_SEPARATOR/\"$g"
fi
;;
pw32*)
# pw32 DLLs use 'pw' prefix rather than 'lib'
library\_names\_spec="echo \$\{libname\} \; \; sed -e \; \$\{lib\}/pw/\"echo \$\{release\} \; | \; \$SED -e \; \$\{versuffix\} $\{shared\_ext\}\"
\; ;;
esac
\; ;;
*)
library\_names\_spec="$\{libname\} \; echo \; \$\{release\} \; | \; \$SED -e \; \$\{versuffix\} $\{shared\_ext\} $\{libname\}.lib"
\; ;;
esac
dynamic\_linker=Win32 ld.exe'
# FIXME: first we should search . and the directory the executable is in
shlibpath\_var=PATH
;;
darwin* | rhapsody*)
dynamic\_linker="$\{host\_os\} dyld"
version\_type=darwin
need\_lib\_prefix=no
need\_version=no
library\_names\_spec="$\{libname\}$\{release\}$\{versuffix\}$\{shared\_ext\} $\{libname\}$\{release\}$\{major\}$\{shared\_ext\}$\{libname\}$\{shared\_ext\}"
soname\_spec="$\{libname\}$\{release\}$\{major\}$\{shared\_ext\}"
shlibpath\_overrides\_runpath=yes
shlibpath\_var=DYLD\_LIBRARY\_PATH
shrext\_cmds="test .\$module = .yes && echo .so || echo .dylib"
m4_if([$1]. [], [,
sys_lib_search_path_spec="$sys_lib_search_path_spec /usr/local/lib"])
sys_lib_dlssearch_path_spec=/usr/local/lib /lib /usr/lib'
;
;
dgux*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${shared_ext}$versuffix $libname${release}${shared_ext}$major $libname$shared_ext'
soname_spec=${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;
;
freebsd1*)
dynamic_linker=no
;
;
freebsd* [ dragonfly*)
# DragonFly does not have aout. When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
  objformat=/usr/bin/objformat'
else
  case $host_os in
    freebsd[[123]]*) objformat=aout ;;
    *) objformat=elf ;;
    esac
fi
version_type=freebsd-$objformat
case $version_type in
  freebsd-elf*)
    library_names_spec=${libname}${release}${shared_ext}$versuffix $libname${release}${shared_ext}$major $libname$shared_ext'
    need_version=no
    need_lib_prefix=no
    ;;
  freebsd-*)
    library_names_spec=${libname}${release}${shared_ext}$versuffix $libname${shared_ext}$versuffix $libname${shared_ext}$versuffix’
    need_version=yes
    ;;
  esac
shlibpath_var=LD_LIBRARY_PATH
case $host_os in
  freebsd2*)
    shlibpath_overrides_runpath=yes
    ;;
freebsd3.[[01]]* | freebsdelf3.[[01]]*
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;
freebsd3.[[2-9]]* | freebsdelf3.[[2-9]]* | 
freebsd4.[[0-5]] | freebsd4.[[0-5]] | freebsd4.1.1 | freebsdelf4.1.1)
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;
*) # from 4.6 on, and DragonFly
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;
esac
    ;;
gnu*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec=${libname}${release}${versuffix} ${libname}${release}${shared_ext}${major}
    soname_spec=${libname}${release}${shared_ext}major
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    ;;
hpux9* | hpux10* | hpux11*)
    # Give a soname corresponding to the major version so that dld.sl refuses to
    # link against other versions.
    version_type=sunos
    need_lib_prefix=no
    need_version=no
    case $host_cpu in
    ia64*)
        shrext_cmds='.so'
        hardcode_into_libs=yes
        dynamic_linker="$host_os dld.so"
        shlibpath_var=LD_LIBRARY_PATH
        shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
        library_names_spec=${libname}${release}${versuffix} ${libname}${release}${shared_ext}major
        soname_spec=${libname}${release}${shared_ext}major
        if test "X$HPUX_IA64_MODE" = X32; then
            sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32 /usr/local/lib"
        else
            sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
        fi
    fi
sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
::
hppa*64*)
  shrext_cmds='.sl'
  hardcode_into_libs=yes
  dynamic_linker="$host_os dld.sl"
shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
:: *
)  shrext_cmds='.sl'
  dynamic_linker="$host_os dld.sl"
shlibpath_var=SHLIB_PATH
shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
::
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 \$lib'
::

interix[[3-9]]*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
::

irix5* | irix6* | nonstopux*)
case $host_os in
  nonstopux*) version_type=nonstopux ;; *)
  if test "$lt_cv_prog_gnu_ld" = yes; then
    version_type=linux
  else
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version_type=irix
fi ;;
esac
need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${release}${shared_ext} $libname${shared_ext}'
finish_cmds='PATH="$PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff} /usr/local/lib${libsuff}"
sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
hardcode_into_libs=yes
;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
dynamic_linker=no
;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec=${libname}${release}${shared_ext}$major
finish_cmds=PATH="$PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
# This implies no fast_install, which is unacceptable.
Some rework will be needed to allow for fast_install
before this can be enabled.

hardcode_into_libs=yes

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
  lt ld_extra=awk '/^\*include / { system(sprintf("cd /etc; cat %s 2>/dev/null", \[$\]2)); skip = 1; } { if (!skip) print \[$\]0; skip = 0; } < /etc/ld.so.conf | SED -e 's/#.*//;/^\*[^\*]*\*/d;s/\[ \t\]*hwcap[ \t\]/d;/^$/d'""
  sys_lib_dlsearch_path_spec="/lib /usr/lib $lt ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.

dynamic_linker='GNU/Linux ld.so'

if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
  finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
  dynamic_linker='NetBSD (a.out) ld.so'
else
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  dynamic_linker='NetBSD ld.elf.so'
fi

shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes

newsos6)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes

::
nto-qnx*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix $libname${release}${shared_ext}$major
                             $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  ;;

openbsd*)
  version_type=sunos
  sys_lib_dlsearch_path_spec="/usr/lib"
  need_lib_prefix=no
  # Some older versions of OpenBSD (3.3 at least) *do* need versioned libs.
  case $host_os in
    openbsd3.3 | openbsd3.3.*) need_version=yes ;;
    *) need_version=no ;;
  esac
  library_names_spec='$libname${release}${shared_ext}$versuffix $libname${shared_ext}$versuffix'
  finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
  shlibpath_var=LD_LIBRARY_PATH
  if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
    case $host_os in
      openbsd2.[[89]] | openbsd2.[[89]].*)
        shlibpath_overrides_runpath=no
        ;;
      *)
        shlibpath_overrides_runpath=yes
        ;;
    esac
  else
    shlibpath_overrides_runpath=yes
  fi
  ;;

os2*)
  libname_spec='$name'
  shrext_cmds='.dll'
  need_lib_prefix=no
  library_names_spec='${libname}${shared_ext} $libname.a'
  dynamic_linker='OS/2 ld.exe'
  shlibpath_var=LIBPATH
  ;;

osf3* | osf4* | osf5*)
  version_type=osf
need_lib_prefix=no
need_version=no
soname_spec='\${libname}\${release}\${shared_ext}\$major'
library_names_spec='\${libname}\${release}\${shared_ext}\$versuffix \${libname}\${release}\${shared_ext}\$major
$libname$\{shared_ext\}'
shlibpath_var=LD_LIBRARY_PATH
sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc /usr/lib /usr/local/lib /var/shlib"
sys_lib_dlssearch_path_spec="$sys_lib_search_path_spec"

rlos*)
  dynamic_linker=no
  ;;
solaris*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='\${libname}\${release}\${shared_ext}\$versuffix \${libname}\${release}\${shared_ext}\$major
$libname$\{shared_ext\}'
  soname_spec='\${libname}\{release\}\${shared_ext}\$major'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  hardcode_into_libs=yes
  # ldd complains unless libraries are executable
  postinstall_cmds='chmod +x $lib'
  ;;
sunos4*)
  version_type=sunos
  library_names_spec='\${libname}\{release\}\${shared_ext}\$versuffix \${libname}\{shared_ext\}\$versuffix'
  finish_cmds='PATH="\$PATH/usr/etc" ldconfig \$libdir'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  if test "$with_gnu_ld" = yes; then
    need_lib_prefix=no
  fi
  need_version=yes
  ;;
sysv4 | sysv4.3*)
  version_type=linux
  library_names_spec='\${libname}\{release\}\${shared_ext}\$versuffix \${libname}\{release\}\${shared_ext}\$major
$libname$\{shared_ext\}'
  soname_spec='\${libname}\{release\}\$major'
  shlibpath_var=LD_LIBRARY_PATH
  case $host_vendor in
  sni)
shlibpath_overrides_runpath=no
need_lib_prefix=no
export_dynamic_flag_spec='${wl}-Blargedynsym'
runpath_var=LD_RUN_PATH
::
siemens)
need_lib_prefix=no
::
motorola)
need_lib_prefix=no
need_version=no
shlibpath_overrides_runpath=no
sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
::
esac
::

sysv4*MP*)
if test -d /usr/nec ;then
  version_type=linux
  library_names_spec='$libname${shared_ext}.${versuffix} $libname${shared_ext}.${major} $libname${shared_ext}'
  soname_spec='$libname${shared_ext}.${major}'
  shlibpath_var=LD_LIBRARY_PATH
fi
::

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
version_type=freebsd-elf
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext} ${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}.${major}'
shlibpath_var=LD_LIBRARY_PATH
hardcode_into_libs=yes
if test "$with_gnu_ld" = yes; then
  sys_lib_search_path_spec="/usr/local/lib /usr/gnu/lib /usr/ccs/lib /usr/lib /lib"
  shlibpath_overrides_runpath=no
else
  sys_lib_search_path_spec="/usr/ccs/lib /usr/lib"
  shlibpath_overrides_runpath=yes
  case $host_os in
    sco3.2v5*)
      sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
      ;;
    esac
fi
sys_lib_dlsearch_path_spec="/usr/lib"
uts4*)
version_type=linux
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

*)
dynamic_linker=no
;;
esac
AC_MSG_RESULT([${dynamic_linker}])
test "${dynamic_linker}" = no && can_build_shared=no

AC_CACHE_VAL([lt_cv_sys_lib_search_path_spec],
[lt_cv_sys_lib_search_path_spec="$sys_lib_search_path_spec"])
sys_lib_search_path_spec="lt_cv_sys_lib_search_path_spec"
AC_CACHE_VAL([lt_cv_sys_lib_dlsearch_path_spec],
[lt_cv_sys_lib_dlsearch_path_spec="$sys_lib_dlsearch_path_spec"])
sys_lib_dlsearch_path_spec="lt_cv_sys_lib_dlsearch_path_spec"

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "SGCC" = yes; then
  variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX COMPILER_PATH
LIBRARY_PATH"
fi
))# AC_LIBTOOL_SYS_DYNAMIC_LINKER

# _LT_AC_TAGCONFIG
#

AC_DEFUN([_LT_AC_TAGCONFIG],
[AC_REQUIRE([LT_AC_PROG_SED])])
AC_ARG_WITH([tags],
[AC_HELP_STRING([--with-tags@<:@=TAGS@:>@],
    [include additional configurations @<:@automatic@:>@]])
[tagsnames="$withval"])

if test -f "$ltmain" && test -n "$tagsnames"; then
  if test ! -f "${ofile}"; then
    AC_MSG_WARN([output file '$ofile' does not exist])
  fi
if test -z "$LTCC"; then
eval "SSHELL $(ofile) --config | grep '^LTCC="'"
if test -z "$LTCC"; then
  AC_MSG_WARN([output file '$ofile' does not look like a libtool script])
else
  AC_MSG_WARN([using 'LTCC=$LTCC', extracted from '$ofile'])
fi

if test -z "$LTCFLAGS"; then
  eval "'"$SHELL $ofile --config | grep '^LTCFLAGS='""
fi

# Extract list of available tagged configurations in $ofile.
# Note that this assumes the entire list is on one line.
available_tags='grep "^available_tags=" "$ofile" | "$SHELL $ofile --config | grep 'available_tags='"
lt_save_ifs="$IFS"; IFS="$IFS$PATH_SEPARATOR,"
for tagname in $tagnames; do
  IFS="$lt_save_ifs"
  # Check whether tagname contains only valid characters
  case '$echo "X$tagname" | "$SHELL $ofile --config | grep '^LTCFLAGS='"" in
      "") :;
      *) AC_MSG_ERROR([invalid tag name: $tagname])
  esac
  if grep "^### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "$ofile" > /dev/null
    then
    AC_MSG_ERROR([tag name "$tagname" already exists])
  fi
  # Update the list of available tags.
  if test -n "$tagname"; then
    echo appending configuration tag "$tagname" to $ofile
  fi
  case $tagname in
  CXX)
    if test -n "$CXX" && ( test "$X$CXX" != "Xno" &&
      ( (test "X$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1' ) ||
      (test "X$CXX" != "Xg++") )); then
      AC_LIBTOOL_LANG_CXX_CONFIG
    else
      tagname=""
    fi
  ;;
  F77)
    if test -n "$F77" && test "$X$F77" != "Xno"; then
      AC_LIBTOOL_LANG_F77_CONFIG
```plaintext
else
tagname=""
fi
;;

GCJ)
if test -n "$GCJ" && test "X$GCJ" != "Xno"; then
   AC_LIBTOOL_LANG_GCJ_CONFIG
else
tagname=""
fi
;;

RC)
AC_LIBTOOL_LANG_RC_CONFIG
;;

*)
AC_MSG_ERROR([Unsupported tag name: $tagname])
;;
esac

# Append the new tag name to the list of available tags.
if test -n "$tagname" ; then
   available_tags="$available_tags $tagname"
fi
fi
done
IFS="$lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e 's/^available_tags=.*/available_tags="$available_tags"/g' "$ofile" > "$ofileT"; then
   mv "$ofileT" "$ofile"
   chmod +x "$ofile"
else
   rm -f "$ofileT"
   AC_MSG_ERROR([unable to update list of available tagged configurations.])
fi
fi
)}# _LT_AC_TAGCONFIG

# AC_LIBTOOL_DLOPEN
# -----------------
# enable checks for dlopen support
AC_DEFUN([AC_LIBTOOL_DLOPEN],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])]
)}# AC_LIBTOOL_DLOPEN
```
# AC_LIBTOOL_WIN32_DLL
#
# declare package support for building win32 DLLs
AC_DEFUN([AC_LIBTOOL_WIN32_DLL],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])]
)# AC_LIBTOOL_WIN32_DLL

# AC_ENABLE_SHARED([DEFAULT])
#
# implement the --enable-shared flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_SHARED],
[define([AC_ENABLE_SHARED_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([shared],
[AC_HELP_STRING([--enable-shared@<:@=PKGS@:>@],
[build shared libraries @<:@default=]AC_ENABLE_SHARED_DEFAULT[@:> ]]),
[p=${PACKAGE-default}
case $enableval in
yes) enable_shared=yes ;;
no) enable_shared=no ;;
*)
    enable_shared=no
# Look at the argument we got. We use all the common list separators.
l_t_save_ifs="$IFS"; IFS="[$IFS]SPATH_SEPARATOR,"
    for pkg in $enableval; do
        IFS="$l_t_save_ifs"
        if test "X$pkg" = "X$p"; then
            enable_shared=yes
        fi
    done
    IFS="$l_t_save_ifs"
    ;;
esac],
    [enable_shared=]AC_ENABLE_SHARED_DEFAULT)
)# AC_ENABLE_SHARED

# AC_DISABLE_SHARED
#
# set the default shared flag to --disable-shared
AC_DEFUN([AC_DISABLE_SHARED],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])dnl
AC_ENABLE_SHARED(no)
)# AC_DISABLE_SHARED
# AC_ENABLE_STATIC([DEFAULT])
# --------------------------
# implement the --enable-static flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_STATIC],
[define([AC_ENABLE_STATIC_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([static],
[AC_HELP_STRING([--enable-static@<:@=PKGS@:>@],
[build static libraries @<:@default=]AC_ENABLE_STATIC_DEFAULT[@:>@ ])],
P=${PACKAGE-default}
case $enableval in
   yes) enable_static=yes ;;
   no) enable_static=no ;;
   *)
      enable_static=no
    # Look at the argument we got. We use all the common list separators.
    lt_save_ifs="IFS"; IFS="$IFS$PATH_SEPARATOR,"
    for pkg in $enableval; do
      if test "X$pkg" = "X$p"; then
        enable_static=yes
      fi
    done
    IFS="$lt_save_ifs"
    ;;
esac],
   [enable_static=}AC_ENABLE_STATIC_DEFAULT)
])# AC_ENABLE_STATIC

# AC_DISABLE_STATIC
# -----------------
# set the default static flag to --disable-static
AC_DEFUN([AC_DISABLE_STATIC],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_STATIC(no)
])# AC_DISABLE_STATIC

# AC_ENABLE_FAST_INSTALL([DEFAULT])
# --------------------------------- 
# implement the --enable-fast-install flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_FAST_INSTALL],
[define([AC_ENABLE_FAST_INSTALL_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([fast-install],
[AC_HELP_STRING([--enable-fast-install@<:@=PKGS@:>@],
[p=${PACKAGE-default}
case $enableval in
    yes) enable_fast_install=yes ;;
    no) enable_fast_install=no ;;
    *)
        enable_fast_install=no
    # Look at the argument we got. We use all the common list separators.
    lt_save_ifs="IFS"; IFS="$IFS$PATH_SEPARATOR,"
    for pkg in $enableval; do
      if test "X$pkg" = "X$p"; then
        enable_fast_install=yes
      fi
    done
    IFS="$lt_save_ifs"
    ;;
esac],
   [enable_fast_install=}AC_ENABLE_FAST_INSTALL_DEFAULT)
])# AC_ENABLE_FAST_INSTALL
[optimize for fast installation @ <@default=]AC_ENABLE_FAST_INSTALL_DEFAULT[@:@ @])],
[p=${PACKAGE-default]
case $enableval in
  yes) enable_fast_install=yes ;;
  no) enable_fast_install=no ;;
  *)
    enable_fast_install=no
    # Look at the argument we got. We use all the common list separators.
    lt_save_ifs=":IFS"; IFS="${IFS}PATH_SEPARATOR,"
    for pkg in $enableval; do
      IFS="$lt_save_ifs"
      if test "X$pkg" = "X$p"; then
        enable_fast_install=yes
      fi
    done
    IFS="$lt_save_ifs"
    ;;
  esac,
  [enable_fast_install=]AC_ENABLE_FAST_INSTALL_DEFAULT)
)J# AC_ENABLE_FAST_INSTALL

# AC_DISABLE_FAST_INSTALL
# -----------------------
# set the default to --disable-fast-install
AC_DEFUN[AC_DISABLE_FAST_INSTALL],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_FAST_INSTALL(no)
)J# AC_DISABLE_FAST_INSTALL

# AC_LIBTOOL_PICMODE(MODE)
# --------------------------
# implement the --with-pic flag
# MODE is either 'yes' or 'no'. If omitted, it defaults to 'both'.
AC_DEFUN[AC_LIBTOOL_PICMODE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
pic_mode=ifelse($#,1,$1,default)
)J# AC_LIBTOOL_PICMODE

# AC_PROG_EGREP
# -------------
# This is predefined starting with Autoconf 2.54, so this conditional
# definition can be removed once we require Autoconf 2.54 or later.
m4_ifndef[AC_PROG_EGREP], [AC_DEFUN[AC_PROG_EGREP],
[AC_CACHE_CHECK([for egrep], [ac_cv_prog_egrep],
  [if echo a | (grep -E '(a|b)') >/dev/null 2>&1

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then ac_cv_prog_egrep='grep -E'
else ac_cv_prog_egrep='egrep'
fi
EGREP=$ac_cv_prog_egrep
AC_SUBST([EGREP])
]]

# AC_PATH_TOOL_PREFIX
# --------------------
# find a file program which can recognize shared library
AC_DEFUN([AC_PATH_TOOL_PREFIX],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_MSG_CHECKING([for $1])
AC_CACHE_VAL(lt_cv_path_MAGIC_CMD,
[case $MAGIC_CMD in
[\/*] | ??:\/*]
lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with a path.
;;
*)
lt_save_MAGIC_CMD="$MAGIC_CMD"
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
dnl $ac_dummy forces splitting on constant user-supplied paths.
dnl POSIX.2 word splitting is done only on the output of word expansions,
dnl not every word. This closes a longstanding sh security hole.
ac_dummy="ifelse([$2], , $PATH, [$2])"
for ac_dir in $ac_dummy; do
  IFS="$lt_save_ifs"
test -z "$ac_dir" && ac_dir=.
  if test -f $ac_dir/$1; then
    lt_cv_path_MAGIC_CMD="$ac_dir/$1"
    if test -n "$file_magic_test_file"; then
      case $deplibs_check_method in
      "file_magic ")
        file_magic_regex="expr "$deplibs_check_method" : "file_magic \([^]*\)"
        MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
        if eval $file_magic_cmd $file_magic_test_file 2> /dev/null |
        $EGREP "$file_magic_regex" > /dev/null; then
        :
      else
        cat <<EOF 1>&2
    *** Warning: the command libtool uses to detect shared libraries,
    *** $file_magic_cmd, produces output that libtool cannot recognize.
    *** The result is that libtool may fail to recognize shared libraries
    *** as such. This will affect the creation of libtool libraries that
    *** depend on shared libraries, but programs linked with such libtool
    *** libraries will work regardless of this problem. Nevertheless, you
*** may want to report the problem to your system manager and/or to 
*** bug-libtool@gnu.org

EOF
fi ;;
esac
  fi
break
fi
done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
;;
esac)
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  AC_MSG_RESULT($MAGIC_CMD)
else
  AC_MSG_RESULT(no)
fi
])# AC_PATH_TOOL_PREFIX

# AC_PATH_MAGIC
#
### find a file program which can recognize a shared library
AC_DEFUN([AC_PATH_MAGIC],
[AC_PATH_TOOL_PREFIX(${ac_tool_prefix}file, /usr/bin$PATH_SEPARATOR$PATH)
if test -z "$lt_cv_path_MAGIC_CMD"; then
  if test -n "$ac_tool_prefix"; then
    AC_PATH_TOOL_PREFIX(file, /usr/bin$PATH_SEPARATOR$PATH)
  else
    MAGIC_CMD=:
  fi
fi
])# AC_PATH_MAGIC

# AC_PROG_LD
#
### find the pathname to the GNU or non-GNU linker
AC_DEFUN([AC_PROG_LD],
[AC_ARG_WITH([gnu-ld],
  [AC_HELP_STRING([--with-gnu-ld],
    [assume the C compiler uses GNU ld @<:@default=no@:>@]),
  test "$withval" = no || with_gnu_ld=yes],
  [with_gnu_ld=no])
AC_REQUIRE([LT_AC_PROG_SED])
)
AC_REQUIRE([AC_PROG_CC])
AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([AC_CANONICAL_BUILD])
ac_prog=ld
if test "$GCC" = yes; then
# Check if gcc -print-prog-name=ld gives a path.
AC_MSG_CHECKING([for ld used by $CC])
if test "$with_gnu_ld" = yes; then
AC_MSG_CHECKING([for GNU ld])
else
AC_MSG_CHECKING([for non-GNU ld])
fi
AC_CACHE_VAL(lt_cv_path_LD, [if test -z "$LD"; then
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
for ac_dir in $PATH; do
IFS="$lt_save_ifs"
if test -z "$ac_dir" &;& ac_dir=.
if test -f "$ac_dir/$ac_prog") || test -f "$ac_dir/$ac_prog$ac_exeext"; then
lt_cv_path_LD=""$ac_dir/$ac_prog"
# Check to see if the program is GNU ld. I'd rather use --version,
# but apparently some variants of GNU ld only accept -v.
# Break only if it was the GNU/non-GNU ld that we prefer.
case "$lt_cv_path_LD" -v 2>&1 </dev/null in
*GNU* | *'with BFD'*)
  test "$with_gnu_ld" != no && break
  *
  test "$with_gnu_ld" != yes && break
  esac
done
IFS="$lt_save_ifs"
else
  lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi)
LD="$lt_cv_path_LD"
if test -n "$LD"; then
  AC_MSG_RESULT($LD) # Let the user override the test with a path.
else
  AC_MSG_RESULT(no)
fi
test -z "$LD" && AC_MSG_ERROR([no acceptable ld found in \$PATH])
AC_PROG_LD_GNU
)\# AC_PROG_LD

# AC_PROG_LD_GNU
# --------------
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_CACHE_CHECK([if the linker ($LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept -v.
case '$LD -v 2>&1 <(null' in
*GNU* | *'with BFD'*)
  lt_cv_prog_gnu_ld=yes
  *
  lt_cv_prog_gnu_ld=no
  esac)
with_gnu_ld=$lt_cv_prog_gnu_ld
)\# AC_PROG_LD_GNU

# AC_PROG_LD_RELOAD_FLAG
# ----------------------
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
lt_cv_ld_reload_flag,
[lt_cv_ld_reload_flag='-r']
reloaded_flag=lct_cv_ld_reload_flag
case $reloaded_flag in
  "" | "") ;;
  *) reloaded_flag=" $reloaded_flag" ;;
esac
reloaded_cmds="$LD$reloaded_flag -o $output$reloaded_objs"
case $host_os in
darwin*)
  if test "$SGCC" = yes; then
    reloaded_cmds="$LCRTCC $LTCFLAGS -nostdlib ${wl}-r -o $output$reloaded_objs"
  else
    reloaded_cmds="$LD$reloaded_flag -o $output$reloaded_objs"
  fi
  ;;
esac)
)# AC_PROG_LD_RELOAD_FLAG

# AC_DEPLIBS_CHECK_METHOD
# -----------------------
# how to check for library dependencies
# -- PORTME fill in with the dynamic library characteristics
AC_DEFUN([AC_DEPLIBS_CHECK_METHOD],
[AC_CACHE_CHECK([how to recognize dependent libraries],
lt_cv_deplibs_check_method,
lt_cv_file_magic_cmd='$MAGIC_CMD'
lcv_file_magic_test_file=
lcv_deplibs_check_method='unknown'
# Need to set the preceding variable on all platforms that support
# interlibrary dependencies.
# 'none' -- dependencies not supported.
# 'unknown' -- same as none, but documents that we really don't know.
# 'pass_all' -- all dependencies passed with no checks.
# 'test_compile' -- check by making test program.
# 'file_magic [regex] -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have 'file' or equivalent on your system and you're not sure
# whether 'pass_all' will *always* work, you probably want this one.
case $host_os in
  aix([4-9])*;
lcv_deplibs_check_method=pass_all
  ;;
beos*)
lt_cv_deplibs_check_method=pass_all
;;

bsd([45])*)
lt_cv_deplibs_check_method='file_magic ELF ([0-9]+)[(0-9]*-bit ([ML])SB (shared object|dynamic lib)'
ltem_file_magic_cmd='/usr/bin/file -L'
ltem_file_magic_test_file=/shlib/libc.so
;;

cygwin*)
# func_win32_libid is a shell function defined in ltmain.sh
lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
ltem_file_magic_cmd='func_win32_libid'
ltem_file_magic_test_file=/shlib/libc.so
;;

mingw* | pw32*)
# Base MSYS/MinGW do not provide the 'file' command needed by
# func_win32_libid shell function, so use a weaker test based on 'objdump',
# unless we find 'file', for example because we are cross-compiling.
if ( file / ) >/dev/null 2>&1; then
  lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
ltem_file_magic_cmd='func_win32_libid'
else
  lt_cv_deplibs_check_method='file_magic file format pei*-i386(.*architecture: i386)?'
ltem_file_magic_cmd='$OBJDUMP -f'
fi
;;

darwin* | rhapsody*)
ltem_cv_deplibs_check_method=pass_all
;;

freebsd* | dragonfly*)
if echo __ELF__ | $CC -E - | grep __ELF__ /dev/null; then
  case $host_cpu in
  i*86 )
    # Not sure whether the presence of OpenBSD here was a mistake.
    # Let's accept both of them until this is cleared up.
    lt_cv_deplibs_check_method='file_magic (FreeBSD|OpenBSD|DragonFly|i[3-9])86 (compact )?demand paged shared library'
ltem_file_magic_cmd='/usr/bin/file
ltem_file_magic_test_file='echo /usr/lib/libc.so.*'
  esac
else
  lt_cv_deplibs_check_method=pass_all
fi
Open Source Used In Tetration 3.5.1  7300

fi
;;

gnu*)
lt_cv_deplibs_check_method=pass_all
;;

hpx10.20* | hpx11*)
lt_cv_file_magic_cmd=/usr/bin/file
case $host_cpu in
ia64*)
lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][0-9] Elf-[[0-9]][[0-9]][0-9]) shared object file - 1A64'
lit_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
;;
hppa*64*)
lt_cv_deplibs_check_method='file_magic (s[[0-9]][0-9][0-9][0-9] Elf-[[0-9]][[0-9]][0-9]) shared object file - PA-RISC [0-
9],[0-9]'
lit_cv_file_magic_test_file=/usr/lib/pa20_64/libc.sl
;;
*)
lit_cv_deplibs_check_method='file_magic (s[[0-9]][0-9][0-9][0-9] Elf-[0-9][0-9][0-9]) shared library'
lit_cv_file_magic_test_file=/usr/lib/libc.sl
;;
esac
;;
interix[[3-9]*]
# PIC code is broken on Interix 3.x, that's why \a not \.a here
lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so|\.a)$'
;;
irix5* | irix6* | nonstopux*)
case $LD in
  *.32[*"-32 "] libmagic=32-bit;;
  *
-32[*"-32 "] libmagic=N32;;
  *
-64[*"-64 "] libmagic=64-bit;;
*) libmagic=never-match;;
esac
lt_cv_deplibs_check_method=pass_all
;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
lit_cv_deplibs_check_method=pass_all
;;

netbsd*)
if echo __elf__ | $CC -E - | grep __elf__ > /dev/null; then


lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so\[[0-9]\]+\[[0-9]\]+|__pic\.)$'
else
lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so\.[0-9]+|__pic\.)$'
fi

newos6*
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]\*-bit [[ML]]SB (executable|dynamic lib)'
lcv_file_magic_cmd=/usr/bin/file
lt_cv_file_magic_test_file=/usr/lib/libnls.so

nto-qnx*
lt_cv_deplibs_check_method=unknown

openbsd*
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "host_os-host_cpu" = "openbsd2.8-powerpc"; then
lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so\[[0-9]\]+\[[0-9]\]+|\so\.[0-9]+|__pic\.)$'
else
lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so\[[0-9]\]+\[[0-9]\]+|\so\_[0-9]+|__pic\.)$'
fi

osf3* | osf4* | osf5*)
lcv_deplibs_check_method=pass_all

rdos*)
lcv_deplibs_check_method=pass_all

solaris*)
lcv_deplibs_check_method=pass_all

sysv4 | sysv4.3*)
case $host_vendor in
motorola
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]\*-bit [[ML]]SB (shared object|dynamic lib) M[[0-9]]][[0-9]]\* Version [[0-9]]'
lcv_file_magic_test_file='echo /usr/lib/libc.so*'

ncr
lt_cv_deplibs_check_method=pass_all

sequent
lt_cv_file_magic_cmd='/bin/file'
lt_cv_deplibs_check_method="file_magic ELF [[0-9]]([[0-9]]*-bit [[LM]]SB (shared object|dynamic lib)"
;;
sni
lt_cv_file_magic_cmd='/bin/file'
lt_cv_deplibs_check_method="file_magic ELF [[0-9]]([[0-9]]*-bit [[LM]]SB dynamic lib"
l十堰_file_magic_test_file=/lib/libc.so
;;
siemens
lt_cv_deplibs_check_method=pass_all
;;
pc
lt_cv_deplibs_check_method=pass_all
;;
esac
;;
sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
l十堰_deplibs_check_method=pass_all
;;
esac
)
file_magic_cmd=$lt_cv_file_magic_cmd
deplibs_check_method=$lt_cv_deplibs_check_method
test -z "$deplibs_check_method" && deplibs_check_method=unknown
})
# AC_DEPLIBS_CHECK_METHOD

# AC_PROG_NM
# --------
# find the pathname to a BSD-compatible name lister
AC_DEFUN([AC_PROG_NM],
[AC_CACHE_CHECK([for BSD-compatible nm], lt_cv_path_NM,
[if test -n "$NM"; then
# Let the user override the test.
lt_cv_path_NM="$NM"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" "&& test "$build" != "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="IFS"
    for ac_dir in /PATH; do
        if test -f "$ac_dir" "&& test "$build" != "$host"; then
            lt_save_ifs="IFS"
            for ac_dir in /PATH; do
                if test -f "$ac_dir" "&& test "$build" != "$host"; then
                    break
                fi
            done
            break
        fi
    done
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
fi
AC_PROG_NM=""Nm"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" "&& test "$build" != "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="IFS"
    for ac_dir in /PATH; do
        if test -f "$ac_dir" "&& test "$build" != "$host"; then
            lt_save_ifs="IFS"
            for ac_dir in /PATH; do
                if test -f "$ac_dir" "&& test "$build" != "$host"; then
                    break
                fi
            done
            break
        fi
    done
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "(" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "(" "&& test "$build" != "$host"; then
        break
    fi
fi
AC_PROG_NM=""Nm"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" "&& test "$build" != "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="IFS"
    for ac_dir in /PATH; do
        if test -f "$ac_dir" "&& test "$build" != "$host"; then
            lt_save_ifs="IFS"
            for ac_dir in /PATH; do
                if test -f "$ac_dir" "&& test "$build" != "$host"; then
                    break
                fi
            done
            break
        fi
    done
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
fi
AC_PROG_NM=""Nm"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" "&& test "$build" != "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="IFS"
    for ac_dir in /PATH; do
        if test -f "$ac_dir" "&& test "$build" != "$host"; then
            lt_save_ifs="IFS"
            for ac_dir in /PATH; do
                if test -f "$ac_dir" "&& test "$build" != "$host"; then
                    break
                fi
            done
            break
        fi
    done
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
fi
AC_PROG_NM=""Nm"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" "&& test "$build" != "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="IFS"
    for ac_dir in /PATH; do
        if test -f "$ac_dir" "&& test "$build" != "$host"; then
            lt_save_ifs="IFS"
            for ac_dir in /PATH; do
                if test -f "$ac_dir" "&& test "$build" != "$host"; then
                    break
                fi
            done
            break
        fi
    done
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
fi
AC_PROG_NM=""Nm"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" "&& test "$build" != "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="IFS"
    for ac_dir in /PATH; do
        if test -f "$ac_dir" "&& test "$build" != "$host"; then
            lt_save_ifs="IFS"
            for ac_dir in /PATH; do
                if test -f "$ac_dir" "&& test "$build" != "$host"; then
                    break
                fi
            done
            break
        fi
    done
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
fi
AC_PROG_NM=""Nm"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" "&& test "$build" != "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="IFS"
    for ac_dir in /PATH; do
        if test -f "$ac_dir" "&& test "$build" != "$host"; then
            lt_save_ifs="IFS"
            for ac_dir in /PATH; do
                if test -f "$ac_dir" "&& test "$build" != "$host"; then
                    break
                fi
            done
            break
        fi
    done
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
    if test -f "$ac_dir" "&& test "$build" != "$host"; then
        break
    fi
fi
AC_PROG_NM=""Nm"
# Adding the 'sed 1q' prevents false positives on HP-UX, which says:
# nm: unknown option "B" ignored
# Tru64's nm complains that /dev/null is an invalid object file
case ""$tmp_nm" -B /dev/null 2>&1 | sed '1q' in
*/dev/null*/ | *"Invalid file or object type"*/)
  lt_cv_path_NM="$tmp_nm -B"
  break
  ;;
*)
case ""$tmp_nm" -p /dev/null 2>&1 | sed '1q' in
*/dev/null*/
  lt_cv_path_NM="$tmp_nm -p"
  break
  ;;
*)
lt_cv_path_NM=${lt_cv_path_NM="$tmp_nm"} # keep the first match, but
continue # so that we can try to find one that supports BSD flags
  ;;
esac
esac
fi
done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
fi)
NM="$lt_cv_path_NM"
}
) # AC_PROG_NM

# AC_CHECK_LIBM
# ----------
# check for math library
AC_DEFUN([AC_CHECK_LIBM],
[AC_REQUIRE([AC_CANONICAL_HOST])dnl
LIBM=
case $host in
  *-*beos* | *-*cygwin* | *-*pw32* | *-*darwin* )
  # These system don't have libm, or don't need it
  ;;
  *-ncr-sysv4.3*)
  AC_CHECK_LIB(mw, _mwvalidcheckl, LIBM="-lmw")
  AC_CHECK_LIB(m, cos, LIBM="$LIBM -lm")
  ;;
  *)
  AC_CHECK_LIB(m, cos, LIBM="-lm")
  ;;
  esac
) # AC_PROG_LIBM
esac
])# AC_CHECK_LIBM

# AC_LIBLTDL_CONVENIENCE([DIRECTORY])
# -----------------------------------
# sets LIBLTDL to the link flags for the libltdl convenience library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-convenience to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# it is assumed to be 'libltdl'. LIBLTDL will be prefixed with
# '${top_builddir}/' and LTDLINCL will be prefixed with '${top_srcdir}/'
# (note the single quotes!). If your package is not flat and you're not
# using automake, define top_builddir and top_srcdir appropriately in
# the Makefiles.
AC_DEFUN([AC_LIBLTDL_CONVENIENCE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
  case $enable_ltdl_convenience in
    no) AC_MSG_ERROR([this package needs a convenience libltdl]) ;;
    *) enable_ltdl_convenience=yes
       ac_configure_args="--enable-ltdl-convenience" ;;
  esac
LIBLTDL='${top_builddir}/libltdlc.la
LTDLINCL='-I${top_srcdir}/'
# For backwards non-gettext consistent compatibility...
INCLTDL="${LTDLINCL}"
])# AC_LIBLTDL_CONVENIENCE

# AC_LIBLTDL_INSTALLABLE([DIRECTORY])
# -----------------------------------
# sets LIBLTDL to the link flags for the libltdl installable library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-install to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# and an installed libltdl is not found, it is assumed to be 'libltdl'.
# LIBLTDL will be prefixed with '${top_builddir}/' and LTDLINCL with
# '${top_srcdir}/' (note the single quotes!). If your package is not
# flat and you're not using automake, define top_builddir and top_srcdir
# appropriately in the Makefiles.
# In the future, this macro may have to be called after AC_PROG_LIBTOOL.
AC_DEFUN([AC_LIBLTDL_INSTALLABLE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
  AC_CHECK_LIB(ltdl, lt_dlinit,
    [test x"enable_ltdl_install" != xyes && enable_ltdl_install=no],
    [if test x"enable_ltdl_install" = xno; then
      AC_MSG_WARN([libltdl not installed, but installation disabled])
    else
      AC_MSG_WARN([libltdl installed])
    fi])
])# AC_LIBLTDL_INSTALLABLE
enable_ltdl_install=yes
fi
)
if test x"enable_ltdl_install" = x"yes"; then
    ac_configure_args="$ac_configure_args --enable-ltdl-install"
    LIBLTDL=${{top_builddir}}/ifelse($#,1,$1,['libltdl'])/libltdl.la
    LTDLINCL=-I${{top_srcdir}}/ifelse($#,1,$1,['libltdl'])
else
    ac_configure_args="$ac_configure_args --enable-ltdl-install=no"
    LIBLTDL="-lltdl"
    LTDLINCL=
fi
# For backwards non-gettext consistent compatibility...
INCLU睛="$LTDLINCL"
])# AC_LIBLTDL_INSTALLABLE

# AC_LIBTOOL_CXX
# -----------
# enable support for C++ libraries
AC_DEFUN([AC_LIBTOOL_CXX],
       [AC_REQUIRE([_LT_AC_LANG_CXX])]
     )# AC_LIBTOOL_CXX

# _LT_AC_LANG_CXX
# -----------
AC_DEFUN([_LT_AC_LANG_CXX],
       [AC_REQUIRE([AC_PROG_CXX])]
     )# _LT_AC_LANG_CXX

# _LT_AC_PROG_CXXCPP
# ---------------
AC_DEFUN([_LT_AC_PROG_CXXCPP],
       [AC_REQUIRE([AC_PROG_CXX])]
     )# _LT_AC_PROG_CXXCPP

# AC_LIBTOOL_F77
# -----------
# enable support for Fortran 77 libraries
AC_DEFUN([AC_LIBTOOL_F77],
[AC_REQUIRE([LT_AC_LANG_F77])]
)# AC_LIBTOOL_F77

# _LT_AC_LANG_F77
# ------------
AC_DEFUN([_LT_AC_LANG_F77],
[AC_REQUIRE([AC_PROG_F77])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}F77])
])# _LT_AC_LANG_F77

# AC_LIBTOOL_GCJ
# ------------
# enable support for GCJ libraries
AC_DEFUN([AC_LIBTOOL_GCJ],
[AC_REQUIRE([LT_AC_LANG_GCJ])
])# AC_LIBTOOL_GCJ

# _LT_AC_LANG_GCJ
# ------------
AC_DEFUN([_LT_AC_LANG_GCJ],
[AC_PROVIDE_IFELSE([AC_PROG_GCJ],[],
[AC_PROVIDE_IFELSE([A][M_PROG_GCJ],[],
[AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],[],
[ifdef([AC_PROG_GCJ],[AC_REQUIRE([AC_PROG_GCJ])],
[ifdef([A][M_PROG_GCJ],[AC_REQUIRE([A][M_PROG_GCJ])],
[AC_REQUIRE([A][C_PROG_GCJ OR A][M_PROG_GCJ]])]))]]
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}GCJ])
])# _LT_AC_LANG_GCJ

# AC_LIBTOOL_RC
# -----------
# enable support for Windows resource files
AC_DEFUN([AC_LIBTOOL_RC],
[AC_REQUIRE([LT_AC_PROG_RC])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}RC])
])# AC_LIBTOOL_RC

# AC_LIBTOOL_LANG_C_CONFIG
# -----------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_C_CONFIG], [LT_AC_LANG_C_CONFIG]),
[lt_save_CC="$CC"
AC_LANG_PUSH(C)

# Source file extension for C test sources.
ac_ext=c

# Object file extension for compiled C test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(){return(0);}'

_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

AC_LIBTOOL_PROG_COMPILER_NO RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_SYS_LIB_STRIP
AC_LIBTOOL_DLOPEN_SELF

# Report which library types will actually be built
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([Scan_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$Scan_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
  aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
 archive_cmds="$archive_cmds~$RANLIB $lib"
  test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
  archive_cmds="$archive_cmds~$RANLIB $lib"
postinstall_cmds='$RANLIB $lib'
fi
;

aix\[4-9\]*
if test "Ghost_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
test "$enable_shared" = yes && enable_static=no
fi
;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([$enable_static])

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
)# AC_LIBTOOL_LANG_C_CONFIG

# AC_LIBTOOL_LANG_CXX_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_CXX_CONFIG], _LT_AC_LANG_CXX_CONFIG(CXX))
AC_DEFUN([_LT_AC_LANG_CXX_CONFIG],
[AC_LANG_PUSH(C++)
AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])

_LT_AC_TAGVAR(archive_cmds_need_le, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_code, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_libdir, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_dir, $1)=unsupported
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=

Open Source Used In Tetration 3.5.1 7308
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Dependencies to place before and after the object being linked:
_LT_AC_TAGVAR(predep_objects, $1)=
_LT_AC_TAGVAR(postdep_objects, $1)=
_LT_AC_TAGVAR(predeps, $1)=
_LT_AC_TAGVAR(postdeps, $1)=
_LT_AC_TAGVAR(compiler_lib_search_path, $1)=
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=

# Source file extension for C++ test sources.
ac_ext=cpp

# Object file extension for compiled C++ test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[[[]]]) { return(0); }

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "$[lt_cv_prog_gnu_Ldxx+set]"; then
    lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_Ldxx
else
    $as_unset lt_cv_prog_gnu_ld
fi
if test -n "$[lt_cv_path_LDCXX+set]"; then

---

Open Source Used In Tetration 3.5.1 7309
lt_cv_path_LD=${lt_cv_path_LDCXX}
else
    $as_unset lt_cv_path_LD
fi

test -z "${[LDCXX+set]}" || LD=${LDCXX}
CC=${CXX-"c++"}

_compiler=${CC}

_LT_AC_TAGVAR(compiler, $1)="${CC}
_LT_CC_BASENAME((${compiler}))

# We don't want -fno-exception when compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'
else
    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=
fi

if test "$GXX" = yes; then
    AC_PROG_LD
    # Check if GNU C++ uses GNU ld as the underlying linker, since the
    # archiving commands below assume that GNU ld is being used.
    if test "$with_gnu_ld" = yes; then
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
        _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
    # If archive_cmds runs LD, not CC, wlarc should be empty
    # XXX I think wlarc can be eliminated in ltcf-cxx, but I need to
    #     investigate it a little bit more. (MM)
    addlarc="$wlarc'
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wlarc--with-ld-wlarc '${wl}--whole-archive convei'
        _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc--whole-archive '${wl}--whole-archive convei
    else
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wlarc--with-ld-wlarc
        _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="
# A generic and very simple default shared library creation
# command for GNU C++ for the case where it uses the native
# linker, instead of GNU ld. If possible, this setting should
# overridden to take advantage of the native linker features on
# the platform it is being used on.

_\texttt{LT_AC_TAGVAR}$(archive\_cmds, s1)=\$CC -shared -nostdlib $\texttt{predep\_objects} $\texttt{libobjs} $\texttt{deplibs}$
$\texttt{postdep\_objects} \$\texttt{compiler\_flags} -o $\texttt{lib}$'

fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output\_verbose\_link\_cmd='\$CC -shared $\texttt{CFLAGS} -v conftest.$\texttt{objext} 2>&1 | grep "-L"'

else
GXX=no
with\_gnu\_ld=no
wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
AC\_MSG\_CHECKING(\[whether the $\texttt{compiler} linker ($\texttt{LD}) supports shared libraries\])
_\texttt{LT_AC_TAGVAR}$(ld\_shlibs, s1)=yes

\texttt{case $host\_os in}
aix3*)
  #FIXME: insert proper C++ library support
  _\texttt{LT_AC_TAGVAR}$(ld\_shlibs, s1)=no
  ;;
aix([4-9]*)
  if test "$host\_cpu" = ia64; then
    # On IA64, the linker does run time linking by default, so we don't
    # have to do anything special.
    aix\_use\_runtimelinking=no
    exp\_sym\_flag='\'-Bexport\'
    \texttt{no\_entry\_flag}="
  else
    aix\_use\_runtimelinking=no

  # Test if we are trying to use run time linking or normal
  # AIX style linking. If -brtl is somewhere in \texttt{LDLFLAGS}, we
  # need to do runtime linking.
  case $\texttt{host\_os in aix4.[[23]]\|aix4.[[23]].*\|aix[[5-9]]*)
  for \texttt{ld\_flag} in $\texttt{LDLFLAGS}$; do
    case $\texttt{ld\_flag} in

*-brtl*)
aix_use_runtimelinking=yes
break
::
esac
done
::
esac

exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mmimal-toc to
# CXFFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)="
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GXX" = yes; then
case $host_os in
 aix4.0[012] | aix4.0[012].*)
  # We only want to do this on AIX 4.2 and lower, the check
  # below for broken collect2 doesn't work under 4.3+
collect2name='${CC} -print-prog-name=collect2'
if test -f "$collect2name" && \
   strings "$collect2name" | grep resolve_lib_name >/dev/null
then
  # We have reworked collect2
  :
else
  # We have old collect2
  _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
  # It fails to find uninstalled libraries when the uninstalled
  # path is not listed in the libpath. Setting hardcode_minus_L
  # to unsupported forces relinking
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-'L$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi::
esac
shared_flag='-shared'
if test "aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag ""$wl"-G"
fi
else
  # not using gcc
  if test "$host_cpu" = ia64; then
    # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
    # chokes on -Wl,-G. The following line is correct:
    shared_flag= '-G'
  else
    if test "$aix_use_runtimelinking" = yes; then
      shared_flag= '$wl'-G'
    else
      shared_flag= '$wl'-bM:SRE'
    fi
  fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "Saix_use_runtimelinking" = yes; then
  # Warning - without using the other runtime loading flags (-brtl),
  # -berok will link without error, but may produce a broken library.
  _LT_AC_TAGVAR(allow Undefined_flag, $1)='-berok'
  # Determine the default libpath from the value encoded in an empty executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='$wl'-blibpath:$libdir:'"$aix_libpath"

  _LT_AC_TAGVAR(archive_expsym_cmds, $1)=""$CC" -o $output_objdir/$soname $libobjs $deplib
  "$wl$no_entry_flag" $compiler_flags 'if test "x${allow_undefined_flag}" != "x"; then echo
  "$wl${allow_undefined_flag}"; else fi' "'$wl$exp_sym_flag'"$export_symbols $shared_flag"
else
  if test "$host_cpu" = ia64; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $libdir:/usr/lib:/lib'
    _LT_AC_TAGVAR(allow Undefined_flag, $1)="-z nodelfs"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)=""$CC $shared_flag" -o $output_objdir/$soname $libobjs $deplib
    "$wl$no_entry_flag" $compiler_flags $wl$allow Undefined_flag
    "'$wl$exp_sym_flag'"$export_symbols"
  else
    if test "$host_cpu" = ia64; then
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='$wl'-blibpath:$libdir:""$aix_libpath"
    else
      # Determine the default libpath from the value encoded in an empty executable.
      _LT_AC_SYS_LIBPATH_AIX
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='$wl'-blibpath:$libdir:""$aix_libpath"
    fi
    _LT_AC_TAGVAR(allow Undefined_flag, $1)='-bernotok'
    _LT_AC_TAGVAR(allow Undefined_flag, $1)='-berok'
    # Exported symbols can be pulled into shared objects from archives
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
# This is similar to how AIX traditionally builds its shared libraries.

```bash
_LT_AC_TAGVAR(archive_cmds Need lc, $1)=yes

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC $shared_flag”’ -o $output_objdir/$soname $libobjs
$deplibs $(wl)-bnoentry $compiler_flags $(wl)-bE:$export_symbols$[allow_undefined_flag]~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'

fi
fi
;

beos*)
  if $LD --help 2>&1 | grep ': supported targets::* elf' > /dev/null; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
  # support --undefined. This deserves some investigation. FIXME
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs $compiler_flags $(wl)-soname
  $wl$soname -o $lib'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
  fi
  ::

chorus*)
  case $cc_basename in
    *)
# FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ::
    esac
    ::

cygwin* | mingw* | pw32*)
  # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
  # as there is no search path for DLLs.
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  _LT_AC_TAGVAR(always_export_symbols, $1)=no
  _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

  if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags -o $output_objdir/$soname $[wl]--enable-auto-image-base -Xlinker --out-implib
    -Xlinker $lib'
    # If the export-symbols file already is a .def file (1st line
    # is EXPORTS), use it as is; otherwise, prepend...
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)=if test "x$SED 1q $export_symbols” = xEXPORTS; then
    cp $export_symbols $output_objdir/$soname.def;
    else
      echo EXPORTS > $output_objdir/$soname.def;
```
cat $export_symbols >> $output_objdir/$soname.def;
fi

$CC -shared -nostdlib $output_objdir/$soname.def $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags -o $output_objdir/$soname $wl--enable-auto-image-base -X linker --out-implib -X linker $lib'
else
   _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

if test "$GXX" = yes ; then
output_verbose_link_cmd='echo'

   _LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs
$compiler_flags -install_name $rpath/$soname $verstring $lt_dar_single_mod$(_lt_dsymutil)"
   _LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs
$compiler_flags$(_lt_dsymutil)"
   _LT_AC_TAGVAR(archive_cmds, $1)="sed 's,^[ ]*,,g' < $export_symbols

$output_objdir/$library-name-symbols.expsym
$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs
$compiler_flags -install_name $rpath/$soname $verstring
$lt_dar_single_mod$lt_dar_export_syms$lt_dsymutil"
   _LT_AC_TAGVAR(module_cmds, $1)="sed 's,^[ ]*,,g' < $export_symbols

$output_objdir/$library-name-symbols.expsym
$CC -dynamiclib $allow_undefined_flag -o $lib -bundle $libobjs $deplibs
$compiler_flags
$lt_dar_export_syms$lt_dsymutil"
   if test "$lt_cv_apple_cc_single_mod" != "yes"; then
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -r -keep_privateExterns -nostdlib -o $library-name-master.o
$libobjs $CC -dynamiclib $allow_undefined_flag -o $lib $library-name-master.o $deplibs $compiler_flags

\install_name $rpath/$soname $verstring$lt_dsymutil"
      _LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs
$library-name-master.o $deplibs $compiler_flags
$lt_dsymutil"
   fi
else
case $gcc basename in
  xlc*)
     output_verbose_link_cmd='echo'
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -qmkshrobj $wl-single_module $allow_undefined_flag -o
$lib $libobjs $deplibs $compiler_flags $wl-install_name $wl\{wl\}echo $rpath/$soname $xlcverstring'
      _LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags'
      # Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
      _LT_AC_TAGVAR(archive_cmds, $1)="sed -e \"s,^,[ ]*,g\" $wl\{-single_module\}allow_undefined_flag -o
$lib $libobjs $deplibs $compiler_flags $wl\{-install_name\}echo $rpath/$soname $xltcvverstring'
      _LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags'
   esac
\end{verbatim}
case $host_cpu in
  hppa*64*|ia64*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;
  *)
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
    # but as the default
    # location of the library.
  ;;
esac

case $cc_basename in
  CC*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  aCC*)
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC -b ${wl}+h ${wl}$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'}
  ;;
  ia644*)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC -b ${wl}+h ${wl}$soname ${wl}+nodefaultrpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'}
  ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC -b ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'}
  ;;
esac

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.

outputVerboseLinkCmd="templist=\("${CC -b $CFLAGS -v conftest.$objext 2>&1} | grep \"-L\"\); list=""; for z in $templist; do case $z in conftest.$objext) list="$list $z";; *.$objext);; *) list="$list $z"; esac; done; echo $list";;
  *
if test "SGXX" = yes; then
if test $with_gnu_ld = no; then
case $host_cpu in
  hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib -fPIC $[wl]+h $[wl]+$soname -o $_lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
    ;;
  ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib -fPIC $[wl]+h $[wl]+$soname $[wl]+nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
    ;;
  *)
    ;;
    esac
fi
else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
::
::
interix[[3-9]]*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
  # Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
  # Instead, shared libraries are loaded at an image base (0x10000000 by
  # default) and relocated if they conflict, which is a slow very memory
  # consuming and fragmenting process. To avoid this, we pick a random,
  # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
  # time. Moving up from 0x10000000 also allows more sbrk(2) space.
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $libobjs $deplibs $compiler_flags $[wl]-h,$soname $[wl]-image-base,expr $[RANDOM-$$] % 4096 / 2 * 262144 + 1342177280 -o $lib"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed "s,^,_," $export_symbols
          >$output_objdir/$soname.expsym "$CC -shared $pic_flag $libobjs $deplibs $compiler_flags $[wl]-h,$soname $[wl]-retain-symbols-file,$output_objdir/$soname.expsym $[wl]-image-base,expr $[RANDOM-$$] % 4096 / 2 * 262144 + 1342177280 -o $lib"
    ;;
    irix5* | irix6*)
      case $cc_basename in
        CC*)
          # SGI C++
          _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -all -multigot $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -soname $name 'test -n "$verstring" && echo -set_version $verstring' -update_registry $output_objdir/so_locations -o $lib"
# Archives containing C++ object files must be created using
# "CC -ar", where "CC" is the IRIX C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.

_LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -ar -WR,-u -o $oldlib $oldobjs"

;;
;; *)

if test "$SGXX" = yes; then
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags $wl$soname $wl$soname \"test -n "$verstring" \&\& echo $wl$set_version
    $wl$soname $wl$update_registry $wl$output_objdir)/so_locations -o $lib"
  else
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags $wl$soname $wl$soname \"test -n "$verstring" \&\& echo $wl$set_version
    $wl$soname $wl$update_registry $wl$output_objdir)/so_locations -o $lib"
  fi
fi

_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

::

  esac

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

;;

linux* | k*bsd*-gnu)

  case $cc_basename in
    KCC*)
      # Kuck and Associates, Inc. (KAI) C++ Compiler

      # KAI C++ Compiler will only create a shared library if the output file
      # ends with ".so" (or ".sl" for HP-UX), so rename the library
      # to its proper name (with version) after linking.

      _LT_AC_TAGVAR(archive_cmds, $1)=\"tempext=\"echo $shared_ext | $SED -e \"s/\[\[^()0-9A-Za-z{}\]\]/\\\1/g\"\";
      templib=\"echo $lib | $SED -e \"s/$\(tempext\)[\./]/so/\"\"; $CC $predep_objects $libobjs $deplibs $postdep_objects
      $compiler_flags --soname $soname -o \$templib; mv $\templib $lib"

      _LT_AC_TAGVAR(archive_expsym_cmds, $1)=\"tempext=\"echo $shared_ext | $SED -e \"s/\[\[^()0-9A-Za-
      z{}\]\]/\\\1/g\"\"; templib=\"echo $lib | $SED -e \"s/$\{tempext\}[\./]/so/\"\"; $CC $predep_objects $libobjs $deplibs
      $postdep_objects $compiler_flags --soname $soname -o \$templib $\templib -v $\export_symbols; mv $\templib $lib"

      # Commands to make compiler produce verbose output that lists
      # what "hidden" libraries, object files and flags are used when
      # linking a shared library.

      #
      # There doesn't appear to be a way to prevent this compiler from
      # explicitly linking system object files so we need to strip them
      # from the output so that they don't get included in the library
      # dependencies.
output_verbose_link_cmd="\$CC \$CFLAGS -v conftest.\$objext -o libconftest\$shared_ext 2>&1 | grep "ld"; rm -f libconftest\$shared_ext; list=""; for z in $templist; do case $z in conftest.\$objext) list="\$list \$z";; *.\$objext);; *) list="\$list \$z"; esac; done

\_LT\_AC\_TAGVAR(hardcode\_libdir\_flag\_spec, \$1)='\$\{wl\}\_\-rpath,\$\{libdir\}'
\_LT\_AC\_TAGVAR(export\_dynamic\_flag\_spec, \$1)='\$\{wl\}\_\-export-dynamic'

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
\_LT\_AC\_TAGVAR(old\_archive\_cmds, \$1)='\$CC -Bstatic -o $\{oldlib\} $\{oldobjs\}'

# Intel C++
with\_gnu\_ld=yes

# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $\{predep\_objects\} and $\{postdep\_objects\}, however 7.1 and
# earlier do not add the objects themselves.
case '\$CC -V 2>&1' in
  *"Version 7."*
  \_LT\_AC\_TAGVAR(archive\_cmds, \$1)='\$CC -shared $\{predep\_objects\} $\{libobjs\} $\{deplibs\} $\{postdep\_objects\}
  \$\{compiler\_flags\} \$\{wl\}\_soname \$\{soname\} -o $\{lib\}'
  \_LT\_AC\_TAGVAR(archive\_expsym\_cmds, \$1)='\$CC -shared $\{predep\_objects\} $\{libobjs\} $\{deplibs\}
  \$\{postdep\_objects\} \$\{compiler\_flags\} \$\{wl\}\_soname \$\{soname\} $\{wl\}\_retain-symbols\_file \$\{wl\}\$\{export\_symbols\} -o
  $\{lib\}'

#* ) # Version 8.0 or newer
tmp\_idyn=
case $\{host\_cpu\} in
  ia64*) tmp\_idyn=' -i\_dynamic';
  esac
  \_LT\_AC\_TAGVAR(archive\_cmds, \$1)='\$CC -shared"$$tmp\_idyn\" $\{libobjs\} $\{deplibs\} $\{compiler\_flags\} \$\{wl\}\_soname \$\{soname\} -o $\{lib\}'
  \_LT\_AC\_TAGVAR(archive\_expsym\_cmds, \$1)='\$CC -shared"$$tmp\_idyn\" $\{libobjs\} $\{deplibs\} $\{compiler\_flags\}
  \$\{wl\}\_soname \$\{soname\} $\{wl\}\_retain-symbols\_file \$\{wl\}\$\{export\_symbols\} -o
  $\{lib\}'
  esac
\_LT\_AC\_TAGVAR(archive\_cmds\_need\_lc, \$1)=no
\_LT\_AC\_TAGVAR(hardcode\_libdir\_flag\_spec, \$1)='\$\{wl\}\_\-rpath,\$\{libdir\}'
\_LT\_AC\_TAGVAR(export\_dynamic\_flag\_spec, \$1)='\$\{wl\}\_\-export-dynamic'
\_LT\_AC\_TAGVAR(whole\_archive\_flag\_spec, \$1)='\$\{wl\}\_\-whole-archive$convenience $\{wl\}\_\-no-whole-archive'

pgCC* | pgcpp*)
# Portland Group C++ compiler
\_LT\_AC\_TAGVAR(archive\_cmds, \$1)='\$CC -shared $\{pic\_flag\} $\{predep\_objects\} $\{libobjs\} $\{deplibs\}
  $\{postdep\_objects\} $\{compiler\_flags\} $\{wl\}\_soname $\{soname\} -o $\{lib\}'
  \_LT\_AC\_TAGVAR(archive\_expsym\_cmds, \$1)='\$CC -shared $\{pic\_flag\} $\{predep\_objects\} $\{libobjs\} $\{deplibs\}
  $\{postdep\_objects\} $\{compiler\_flags\} $\{wl\}\_soname $\{soname\} $\{wl\}\_retain-symbols\_file $\{wl\}\$\{export\_symbols\} -o $\{lib\}'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-$ {wl}--rpath $ {wl} $libdir'

_ LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=-$ {wl}--export-dynamic'

_ LT_AC_TAGVAR(whole_archive_flag_spec, $1)=-$ {wl}--whole-archive'

for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-whole-archive'

::

cxx*)

# Compaq C++

_ LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $ {wl} -soname $wl $soname -o $lib'

_ LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $ {wl} -soname $wl $soname -o $lib $ {wl} -retain-symbols-file $wl $export_symbols'

runpath_var=LD_RUN_PATH

_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-$ {wl}--rpath $libdir'

_ LT_AC_TAGVAR(hardcode_libdir_separator, $1)=":

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.

# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.

output_verbose_link_cmd='templist=''

gettemplist='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld"'; templist='echo $templist | $SED "s/\(^.*ld.*\)\(.*ld .*\)/\1/"'; list=""; for z in $templist; do case $z in conftest.$objext) list="list $z";; *.$objext) list="list $z";; *) list="list $z"; esac; done; echo $list"

::

case 'S$C -V 2>&1 | sed 5q' in
*Sun\ C*)

# Sun C++ 5.9

_ LT_AC_TAGVAR(no_undefined_flag, $1)='-zdefs'

_ LT_AC_TAGVAR(archive_cmds, $1)="$CC -G$ {allow_undefined_flag} -h $soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'

_ LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G$ {allow_undefined_flag} -h $soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $ {wl} -retain-symbols-file $wl $export_symbols'

$ {wl} $export_symbols'

_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-'RS$libdir'

_ LT_AC_TAGVAR(whole_archive_flag_spec, $1)=-'whole-archive'

for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' $ {wl} --no-whole-archive'

# Not sure whether something based on
# $CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1
# would be better.

---

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output_verbose_link_cmd='echo'

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -xar -o $oldlib $oldobjs"

::
esac
::
esac
::
lynxos*)
  # FIXME: insert proper C++ library support
_LT_AC_TAGVAR(old_archive_cmds, $1)=no
::
m88k*)
  # FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
mvs*)
  case $cc_basename in
    cxx*)
      # FIXME: insert proper C++ library support
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      ;;
    *)
      # FIXME: insert proper C++ library support
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      ;;
      esac
    esac
::
netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable -o $lib $predep_objects $libobjs $deplibs
    $postdep_objects $linker_flags"
    wlarc=
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-$R$libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    fi
  # Workaround some broken pre-1.5 toolchains
  output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep conftest.$objext | $SED -e "s:-lgcc -lc -lgcc::""
::
openbsd2*)
  # C++ shared libraries are fairly broken
_LT_AC_TAGVAR(ld_shlibs, $1)=no
openbsd*)
if test -f /usr/libexec/ld.so; then
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags -o $lib"
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$libdirectory"
    if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags $\{w1\}-retain-symbols-file,$export_symbols -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags $\{w1\}-retain-symbols-file,$export_symbols -o $lib"
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags $\{w1\}-retain-symbols-file,$export_symbols -o $lib"
    fi
    output_verbose_link_cmd='echo'
else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

osf3*)
case $cc_basename in
    KCC*)
        Kuck and Associates, Inc. (KAI) C++ Compiler
        # KCC will only create a shared library if the output file
        # ends with ".so" (or ".sl" for HP-UX), so rename the library
        # to its proper name (with version) after linking.
        _LT_AC_TAGVAR(archive_cmds, $1)="\$cc\$\(\$\{w1\}\)$libextension"
        tempext='echo $shared_ext | $SED -e 's/\([^()0-9A-Za-z{}\[]]/\\\1/g/';
        templib='echo $lib | $SED -e "s/$tempext\..*/.so/"';
        $CC $predep_objects $libobjs $deplibs $postdep_objects
        $compiler_flags --soname $soname -o $templib; mv $templib $lib"
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$libdirectory"
        _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    esac

    case $cc_basename in
    kcc*)
        Kai C++ Compiler
        # KAI C++ will automatically build a shared library from a
        # compiled object file if the output file name ends with
        # ".so" (or ".sl" for HP-UX), so rename the library
        # to its proper name (with version) after linking.
        _LT_AC_TAGVAR(archive_cmds, $1)="\$cc\$\(\$\{w1\}\)$libextension"
        tempext='echo $shared_ext | $SED -e 's/\([^()0-9A-Za-z{}\[]]/\\\1/g/';
        templib='echo $lib | $SED -e "s/$tempext\..*/.so/"';
        $CC $predep_objects $libobjs $deplibs $postdep_objects
        $compiler_flags --soname $soname -o $templib; mv $templib $lib"
    esac

    case $cc_basename in
    rcc*)
        Rational C++ 2.4.1
        #FIXME: insert proper C++ library support
    esac

    cxx*)
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        fi

    case $cc_basename in
    rcc*)
        Rational C++ 2.4.1
        #FIXME: insert proper C++ library support
    esac

    cxx*)
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        fi

    case $cc_basename in
    rcc*)
        Rational C++ 2.4.1
        #FIXME: insert proper C++ library support
    esac

    cxx*)
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -o $lib"
        fi

    case $cc_basename in
    rcc*)
        Rational C++ 2.4.1
        #FIXME: insert proper C++ library support
    esac

    cxx*)
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}
$postdep_objects $compiler_flags ${wl}-soname $soname 'test -n "$verstring" && echo ${wl}-set_version -update_registry ${output_objdir}/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
outputVerboseLinkCmd='templist="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:"
    templist="echo $templist | $SED "s/\(^.*ld.*\)\( .*ld.*\)/\1/"; list=""; for z in $templist; do case $z in
conftest.$objext) list="$list $z";; *..$objext);; *) list="$list $z";; esac; done; echo $list' :: *
)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}*
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring' ${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
outputVerboseLinkCmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep -v "$L"'
else
    #FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

esac

osf4* | osf5*)
    case $cc_basename in
KCC*)
    # Kuck and Associates, Inc. (KAI) C++ Compiler

    # KCC will only create a shared library if the output file
    # ends with ".so" (or ".sl" for HP-UX), so rename the library
    # to its proper name (with version) after linking.

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# Archives containing C++ object files must be created using
# the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -o $oldlib $oldobjs"

# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no

cxx*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' -expect_unresolved *
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$[allow_undefined_flag] $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -soname $soname -Wl,-input -Wl,$lib.exp 'test -n "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib~
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="for i in 'cat $export_symbols'; do printf "%s %s\n" exported_symbol "$i" >> $lib.exp; done~
echo "-hidden">> $lib.exp~
$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -soname $soname -Wl,input -Wl,$lib.exp 'test -n "$verstring" && echo -set_version$verstring' -update_registry ${output_objdir}/so_locations -o $lib~
$rm $lib.exp"

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
_ LT AC_TAGVAR(allow_undefined_flag, $1)="$[wl]-expect_unresolved $[wl]"
_ LT AC_TAGVAR(archive_cmds, $1)="$CC -shared SCFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:"; templist=’echo $templist | $SED "s/[^()\[\]^\{\}\(\]\{\}0-9A-Za-z\{\}/\\\\/g"; templib=’echo $lib | $SED -e "s/$templist\..*/.so/"; SCC $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags --soname $soname -o $templib; mv $templib $lib"

# Don't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
outputVerboseLinkCmD="templist="$CC -shared SCFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:"; templist=’echo $templist | $SED "s/[^()\[\]^\{\}\(\]\{\}0-9A-Za-z\{\}/\\\\/g"; templib=’echo $lib | $SED -e "s/$templist\..*/.so/"; SCC $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -soname $soname -Wl,input -Wl,$lib.exp 'test -n "$verstring" && echo -set_version$verstring' -update_registry ${output_objdir}/so_locations -o $lib~
$rm $lib.exp"
Commands to make compiler produce verbose output that lists
what "hidden" libraries, object files and flags are used when
linking a shared library.

# Commands to make compiler produce verbose output that lists
what "hidden" libraries, object files and flags are used when
linking a shared library.

output_verbose_link_cmd='\$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "^-L"'

else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
::
esac
::
psos*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
sunos4*)
  case $cc_basename in
  CC*)
  # Sun C++ 4.x
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ::
  lcc*)
  # Lucid
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ::
  *)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ::
esac
::
solaris*)
  case $cc_basename in
  CC*)
  # Sun C++ 4.2, 5.x and Centerline C++
  _LT_AC_TAGVAR(archive_cmds_need_lc,$1)=yes
  _LT_AC_TAGVAR(no_undefined_flag, $1)=' -zdefs'
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects
Slibobjs Sdeplibs Spostdep_objects $compiler_flags'
case $host_os in
  solaris2.[0-5] | solaris2.[0-5].*)
  *)
    # The compiler driver will combine and reorder linker options,
    # but understands `z linker_flag’.
    # Supported since Solaris 2.6 (maybe 2.5.1?)
    whole_archive_flag_spec, $1)=`-z allextract$convenience -z defaultextract'
    ;;
  esac
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
output_verbose_link_cmd=`echo' 

# Archives containing C++ object files must be created using 
# "CC -xar", where "CC" is the Sun C++ compiler. This is 
# necessary to make sure instantiated templates are included 
# in the archive.
old_archive_cmds, $1)=$CC -xar -o $oldlib $oldobjs'
  gcx*)
    # Green Hills C++ Compiler 
    _LT_AC_TAGVAR(archive_cmds, $1)=$CC -shared $predep_objects $libobjs $deplibs $postdep_objects 
    $compiler_flags $wl-h $wl$soname -o $lib'

# The C++ compiler must be used to create the archive. 
old_archive_cmds, $1)=$CC $LDLFLAGS -archive -o $oldlib $oldobjs'
  *)
    # GNU C++ compiler with Solaris linker
    if test "SGXX" = yes && test "with_gnu_ld" = no; then 
      _LT_AC_TAGVAR(no_undefined_flag, $1)=$[wl]-z $[wl]defs'
      if SCC --version | grep -v '^2\.$' > /dev/null; then 
        _LT_AC_TAGVAR(archive_cmds, $1)=$CC -shared -nostdlib $LDLFLAGS $predep_objects $libobjs $deplibs 
        $postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib'
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)=$echo "[$ global: > $lib.exp~cat $export_symbols | $SSED -e "s/\(.*\)//\1/" >> $lib.exp~$echo "local: *; };"); >> $lib.exp~
        $CC -shared -nostdlib $[wl]-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs 
        $postdep_objects $compiler_flags $rm $lib.exp'

      # Commands to make compiler produce verbose output that lists 
      # what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.objext 2>&1 | grep \"-L\""
else
  # g++ 2.7 appears to require '-G' NOT '-shared' on this
  platform.
  _LT_AC_TAGVAR(archive_cmds, $1)size="$CC -G -nostdlib $LDFLAGS $predep_objects $libobjs $deplib
$postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)size="echo "global:" > $lib.exp-cat $export_symbols | $SED -e "s/(.*\}/\1/; >> $lib.exp~" >> $lib.exp~
$CC -G -nostdlib $[wl]-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplib $postdep_objects
$compiler_flags~$rm $lib.exp"
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -G $CFLAGS -v conftest.objext 2>&1 | grep \"-L\"
fi

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)size="$[wl]-R $wl$libdir"
case $host_os in
  solaris2.[[0-5]] | solaris2.[[0-5]].*) ;;
  *)
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)size="$[wl]-z $[wl]allextract$convenience $[wl]-z
$[wl]defaultextract"
    ;;
esac
fi
;
esac
;
sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[[01]]|[[[0-1]]]* | unixware7* | sco3.2v5.0.[[024]]*)
  _LT_AC_TAGVAR(no_undefined_flag, $1)size="$[wl]-z,text"
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)size=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)size=no
  runpath_var='LD_RUN_PATH'
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)size="$CC -G $[wl]-h,$soname -o $lib $libobjs $deplib $compiler_flags"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)size="$CC -G $[wl]-Bexport:$export_symbols $[wl]-h,$soname -o
$lib $libobjs $deplib $compiler_flags"
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)size="$CC -shared $[wl]-h,$soname -o $lib $libobjs $deplib $compiler_flags"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)size="$CC -shared $[wl]-Bexport:$export_symbols $[wl]-h,$soname -o
$lib $libobjs $deplib $compiler_flags"
    ;;
esac
# Note: We can NOT use -z defs as we might desire, because we do not
# link with -lc, and that would cause any symbols used from libc to
# always be unresolved, which means just about no library would
# ever link correctly. If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn’t as heavy-handed
# as -z defs.
# For security reasons, it is highly recommended that you always
# use absolute paths for naming shared libraries, and exclude the
# DT_RUNPATH tag from executables and libraries. But doing so
# requires that you compile everything twice, which is a pain.
# So that behaviour is only enabled if SCOABSPATH is set to a
# non-empty value in the environment. Most likely only useful for
# creating official distributions of packages.
# This is a hack until libtool officially supports absolute path
# names for shared libraries.

LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
LT_AC_TAGVAR(archive_cmds_need lc, $1)=no
LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''test -z "$SCOABSPATH" && echo ${wl}-R,$libdir''
LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
LT_AC_TAGVAR(link_all_deplibs, $1)=yes
LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

 case $cc_basename in
  CC*)
   LT_AC_TAGVAR(archive_cmds, $1)="$CC $-h,$SCOABSPATH:$SONAME -o $lib
   $libobjs $deplibs $compiler_flags''
   LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G $-h,$SCOABSPATH:$SONAME -o $lib
   $libobjs $deplibs $compiler_flags''
   ;;
  *)
   LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $-h,$SCOABSPATH:$SONAME -o $lib
   $libobjs $deplibs $compiler_flags''
   LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $-h,$SCOABSPATH:$SONAME -o $lib
   $libobjs $deplibs $compiler_flags''
   ;;
 esac

 case $cc_basename in
  NCC*)
   LT_AC_TAGVAR(ld_shlibs, $1)=no
  *)
   LT_AC_TAGVAR(ld_shlibs, $1)=no
 esac

 case $cc_basename in
  NCC*)
   # NonStop-UX NCC 3.20
   # FIXME: insert proper C++ library support
   LT_AC_TAGVAR(ld_shlibs, $1)=no

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# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no

; esac
; vxworks*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;
; *
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;
esac
AC_MSG_RESULT([$_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

_LT_AC_TAGVAR(GCC, $1)="$GXX"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_POSTDEP_PREDEP($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP

	CC=$lt_save_CC
	LDCXX=$LD
	LD=$lt_save_LD
	GCC=$lt_save_GCC
	with_gnu_ldcxx=$with_gnu_ld
	with_gnu_ld=$lt_save_with_gnu_ld
	lt_cv_path_LDCXX=$lt_cv_path_LD
	lt_cv_path_LD=$lt_save_path_LD
	lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
	lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld
)

)# AC_LIBTOOL_LANG_CXX_CONFIG

# AC_LIBTOOL_POSTDEP_PREDEP([TAGNAME])
# ------------------------------------
# Figure out "hidden" library dependencies from verbose
# compiler output when linking a shared library.
# Parse the compiler output and extract the necessary
# objects, libraries and library flags.
AC_DEFUN([AC_LIBTOOL_POSTDEP_PREDEP],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
dnl we can't use the lt_simple_compile_test_code here,
dnl because it contains code intended for an executable,
dnl not a library. It's possible we should let each
dnl tag define a new lt_????_link_test_code variable,
dnl but it's only used here...
ifelse([$1],[],[cat > conftest.$ac_ext <<EOF
int a;
void foo (void) { a = 0; }
EOF
],[S1],[CXX],[cat > conftest.$ac_ext <<EOF
class Foo
{
public:
    Foo (void) { a = 0; }
private:
    int a;
};
EOF
],[S1],[F77],[cat > conftest.$ac_ext <<EOF
    subroutine foo
    implicit none
    integer*4 a
   a=0
    return
end
EOF
],[S1],[GCJ],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac2],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac3],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac4],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac5],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac6],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac7],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac8],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac9],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac10],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac11],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac12],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac13],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac14],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac15],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac16],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
    }
EOF
],[S1],[Javac17],[cat > conftest.$ac_ext <<EOF
    public class foo {
    private int a;
    public void bar (void) {
pre_test_object_deps_done=no

# The '*' in the case matches for architectures that use 'case' in
# $output_verbose_cmd can trigger glob expansion during the loop
# eval without this substitution.
output_verbose_link_cmd='$echo "X$output_verbose_link_cmd" | $Xsed -e "$no_glob_subst"

for p in 'eval $output_verbose_link_cmd'; do
case $p in
    -L* | -R* | -l*)
      # Some compilers place space between "-{L,R}" and the path.
      # Remove the space.
      if test $p = ".L" \|| test $p = ".R"; then
        prev=$p
        continue
      else
        prev=
      fi

test "$pre_test_object_deps_done" = no; then
case $p in
    -L* | -R*)
      # Internal compiler library paths should come after those
      # provided the user. The postdeps already come after the
      # user supplied libs so there is no need to process them.
      if test -z "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
        _LT_AC_TAGVAR(compiler_lib_search_path, $1)="${prev}$p"
      else
        _LT_AC_TAGVAR(compiler_lib_search_path, $1)="${_LT_AC_TAGVAR(compiler_lib_search_path, $1)} ${prev}$p"
      fi
    esac
  esac
esac

else
  if test -z "$_LT_AC_TAGVAR(postdeps, $1)"; then
    _LT_AC_TAGVAR(postdeps, $1)="${prev}$p"
  else
    _LT_AC_TAGVAR(postdeps, $1)="${_LT_AC_TAGVAR(postdeps, $1)} ${prev}$p"
  fi
fi
::
# The ".l" case would never come before the object being
# linked, so don't bother handling this case.
esac
else
  if test -z "$_LT_AC_TAGVAR(postdeps, $1)"; then
    _LT_AC_TAGVAR(postdeps, $1)="${prev}$p"
  else
    _LT_AC_TAGVAR(postdeps, $1)="${_LT_AC_TAGVAR(postdeps, $1)} ${prev}$p"
  fi
fi
::

*.objext)
# This assumes that the test object file only shows up
# once in the compiler output.
if test "$p" = "conftest.$objext"; then
pre_test_object_deps_done=yes
continue
fi

if test "$pre_test_object_deps_done" = no; then
if test -z "$LT_AC_TAGVAR(predep_objects, $1)"; then
_LT_AC_TAGVAR(predep_objects, $1)="$p"
else
_LT_AC_TAGVAR(predep_objects, $1)="$LT_AC_TAGVAR(predep_objects, $1) $p"
fi
else
if test -z "$LT_AC_TAGVAR(postdep_objects, $1)"; then
_LT_AC_TAGVAR(postdep_objects, $1)="$p"
else
_LT_AC_TAGVAR(postdep_objects, $1)="$LT_AC_TAGVAR(postdep_objects, $1) $p"
fi
fi
::

*) ;; # Ignore the rest.
esac
done

# Clean up.
rm -f a.out a.exe
else
echo "libtool.m4: error: problem compiling $1 test program"
fi

rm -f confest.$objext

_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=
if test -n "$LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)="$LT_AC_TAGVAR(compiler_lib_search_path, $1)"
else
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)="${SED} -e 's! -L! !g' -e 's!^ !'"
fi

# PORTME: override above test on systems where it is broken
ifelse([$1],[CXX],
[case $host_os in
interix[3-9]*)
  # Interix 3.5 installs completely hosed .la files for C++, so rather than
  # hack all around it, let's just trust "g++" to DTRT.
_LT_AC_TAGVAR(predep_objects,$1)=
_LT_AC_TAGVAR(postdep_objects,$1)=

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_LT_AC_TAGVAR(postdeps,$1)=
::

linux*)
case '$_CC -V 2>&1 | sed 5q' in
*Sun\ C*)
  # Sun C++ 5.9
  #
  # The more standards-conforming stlport4 library is
  # incompatible with the Cstd library. Avoid specifying
  # it if it's in CXXFLAGS. Ignore libCrun as
  # -library=stlport4 depends on it.
case " $CXX $CXXFLAGS " in
  ".library=stlport4 "*)
    solaris_use_stlport4=yes
  ;;
  esac
if test "$solaris_use_stlport4" != yes; then
  __LT_AC_TAGVAR(postdeps,$1)='-library=Cstd -library=Crun'
fi
::
esac
::

solaris*)
case $cc_basename in
  CC*)
  # The more standards-conforming stlport4 library is
  # incompatible with the Cstd library. Avoid specifying
  # it if it's in CXXFLAGS. Ignore libCrun as
  # -library=stlport4 depends on it.
case " $CXX $CXXFLAGS " in
  ".library=stlport4 "*)
    solaris_use_stlport4=yes
  ;;
  esac
  if test "$solaris_use_stlport4" != yes; then
    __LT_AC_TAGVAR(postdeps,$1)='-library=Cstd -library=Crun'
  fi
  ::
esac
::
)
case "$LT_AC_TAGVAR(postdeps, $1)" in
  -*".-c"*-) _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no ;;
esac
)# AC_LIBTOOL_POSTDEP_PREDEP

# AC_LIBTOOL_LANG_F77_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_F77_CONFIG], [LT_AC_LANG_F77_CONFIG(F77)])
AC_DEFUN([LT_AC_LANG_F77_CONFIG],
[AC_REQUIRE([AC_PROG_F77])
AC_LANG_PUSH(Fortran 77)

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Source file extension for f77 test sources.
ac_ext=f

# Object file extension for compiled f77 test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="
  subroutine t
    return
  end
  "
# Code to be used in simple link tests
lt_simple_link_test_code="
  program t
  end
"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
l_t_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([$can_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
  aix3*)
test "enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
  archive_cmds="$archive_cmds~$RANLIB $lib"
  postinstall_cmds="$RANLIB $lib"
fi
  ;;
aix([4-9])*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
  test "enable_shared" = yes && enable_static=no
fi
  ;;
esac
AC_MSG_RESULT([enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([enable_static])
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
)# AC_LIBTOOL_LANG_F77_CONFIG

# AC_LIBTOOL_LANG_GCJ_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_GCJ_CONFIG], [
_LT_AC_LANG_GCJ_CONFIG(GCJ)
])
AC_DEFUN([_LT_AC_LANG_GCJ_CONFIG],
[AC_LANG_SAVE
   # Source file extension for Java test sources.
ae_ext=java
   # Object file extension for compiled Java test sources.
oe_ext=o
_LT_AC_TAGVAR(oe_ext, $1)=$oe_ext

   # Code to be used in simple compile tests
   lt_simple_compile_test_code="class foo {}"

   # Code to be used in simple link tests
   lt_simple_link_test_code='public class conftest { public static void main(String[][] argv) { }; }'

   # ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

   # save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

   # Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=$(GCJ"-gcj")
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# GCJ did not exist at the time GCC didn't implicitly link libc in.
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no

_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
})# AC_LIBTOOL_LANG_GCJ_CONFIG

# AC_LIBTOOL_LANG_RC_CONFIG
# -------------------------
# Ensure that the configuration vars for the Windows resource compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([[AC_LIBTOOL_LANG_RC_CONFIG], [_LT_AC_LANG_RC_CONFIG(RC))]
AC_DEFUN([[LT_AC_LANG_RC_CONFIG,]
[AC_LANG_SAVE

# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED }'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"
# ltmain only uses $CC for tagged configurations so make sure $CC is set.

LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code

LT_COMPILER_BOILERPLATE

LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.

lt_save_CC="$CC"

CC=${RC-"windres"} compiler=$CC

_LT_AC_TAGVAR(compiler, $1)=$CC

_LT_CC_BASENAME([compiler])

_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE

CC="$lt_save_CC"

} # AC_LIBTOOL_LANG_RC_CONFIG

# AC_LIBTOOL_CONFIG([TAGNAME])

# ----------------------------

# If TAGNAME is not passed, then create an initial libtool script
# with a default configuration from the untagged config vars. Otherwise
# add code to config.status for appending the configuration named by
# TAGNAME from the matching tagged config vars.

AC_DEFUN([[AC_LIBTOOL_CONFIG]],

[# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.

if test -f "$ltmain"; then

# See if we are running on zsh, and set the options which allow our commands through
# without removal of \ escapes.

if test -n "${ZSH_VERSION+set}" ; then

setopt NO_GLOB_SUBST

fi

# Now quote all the things that may contain metacharacters while being
# careful not to overquote the AC_SUBSTed values. We take copies of the
# variables and quote the copies for generation of the libtool script.

for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC LTCFLAGS NM SED SHELL STRIP

libname_spec library_names_spec soname_spec extract_expsyms_cmds

old_striplib striplib file_magic_cmd finish_cmds finish_eval

deplibs_check_method reload_flag reload_cmds need_locks

lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl


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lt_cv_sys_global_symbol_to_c_name_address
sys_lib_search_path_spec sys_lib_dlssearch_path_spec
old_postinstall_cmds old_postuninstall_cmds
_LT_AC_TAGVAR(compiler, $1)
_LT_AC_TAGVAR(CC, $1)
_LT_AC_TAGVAR(LD, $1)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)
_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)
_LT_AC_TAGVAR(thread_safe_flag_spec, $1)
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)
_LT_AC_TAGVAR(old_archive_cmds, $1)
_LT_AC_TAGVAR(old_archive_from_new_cmds, $1)
_LT_AC_TAGVAR(predep_objects, $1)
_LT_AC_TAGVAR(postdep_objects, $1)
_LT_AC_TAGVAR(predeps, $1)
_LT_AC_TAGVAR(postdeps, $1)
_LT_AC_TAGVAR(compiler_lib_search_path, $1)
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)
_LT_AC_TAGVAR(archive_cmds, $1)
_LT_AC_TAGVAR(archive_expsym_cmds, $1)
_LT_AC_TAGVAR(postinstall_cmds, $1)
_LT_AC_TAGVAR(postuninstall_cmds, $1)
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)
_LT_AC_TAGVAR(allow_undefined_flag, $1)
_LT_AC_TAGVAR(no_undefined_flag, $1)
_LT_AC_TAGVAR(export_symbols_cmds, $1)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)
_LT_AC_TAGVAR(hardcode_automatic, $1)
_LT_AC_TAGVAR(module_cmds, $1)
_LT_AC_TAGVAR(module_expsym_cmds, $1)
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)
_LT_AC_TAGVAR(fix_srcfile_path, $1)
_LT_AC_TAGVAR(exclude_expsyms, $1)
_LT_AC_TAGVAR(include_expsyms, $1); do

    case $var in
        old_archive_cmds | old_archive_from_new_cmds
        archive_cmds
        archive_expsym_cmds
        module_cmds
        module_expsym_cmds
    esac
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A sed program that does not truncate output.
SED=$lt_SED

# Sed that helps us avoid accidentally triggering echo(1) options like -n.
Xsed="$SED -e 1s/^X//"

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# The names of the tagged configurations supported by this script.
available_tags=

### BEGIN LIBTOOL CONFIG],
[# ### BEGIN LIBTOOL TAG CONFIG: $tagname])

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null | sed 1q`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
builtlibtool_libs=$enable_shared

# Whether or not to build static libraries.
builtold_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
builtlibtool_need_lc=$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)

# Whether or not to disallow shared libs when runtime libs are static
allowlibtool_libs_with_static_runtimes=$_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)

# Whether or not to optimize for fast installation.

fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host
host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS

# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt_[[]]_LT_AC_TAGVAR(compiler, $1)

# Is the compiler the GNU C compiler?
with_gcc=$_LT_AC_TAGVAR(GCC, $1)

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt_[[]]_LT_AC_TAGVAR(LD, $1)

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD
# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
w1=$lt_lang_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds=$shrext_cmds

# Executable file suffix (normally ".")
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_lang_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_lang_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix
# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt__LT_AC_TAGVAR(lt_prog_compiler_static, $1)

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt__LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt__LT_AC_TAGVAR(export_dynamic_flag_spec, $1)

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt__LT_AC_TAGVAR(whole_archive_flag_spec, $1)

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt__LT_AC_TAGVAR(thread_safe_flag_spec, $1)

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names. First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt__LT_AC_TAGVAR(old_archive_cmds, $1)
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt__LT_AC_TAGVAR(old_archive_from_new_cmds, $1)
# Create a temporary old-style archive to link instead of a shared archive.
old_archive_from_expsyms_cmds=${LT_COMMAND_VAR(old_archive_from_expsyms_cmds), $1}

# Commands used to build and install a shared archive.
archive_cmds=${LT_COMMAND_VAR(archive_cmds), $1}
archive_expsym_cmds=${LT_COMMAND_VAR(archive_expsym_cmds), $1}
postinstall_cmds=${LT_COMMAND_VAR(postinstall_cmds)
postuninstall_cmds=${LT_COMMAND_VAR(postuninstall_cmds)

# Commands used to build a loadable module (assumed same as above if empty)
module_cmds=${LT_COMMAND_VAR(module_cmds), $1}
module_expsym_cmds=${LT_COMMAND_VAR(module_expsym_cmds), $1}

# Commands to strip libraries.
old_striplib=${LT_COMMAND_VAR(old_striplib)
striplib=${LT_COMMAND_VAR(striplib)

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=${LT_COMMAND_VAR(predep_objects), $1}

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=${LT_COMMAND_VAR(postdep_objects), $1}

# Dependencies to place before the objects being linked to create a
# shared library.
predes=${LT_COMMAND_VAR(predes), $1}

# Dependencies to place after the objects being linked to create a
# shared library.
pstes=${LT_COMMAND_VAR(pstes), $1}

# The directories searched by this compiler when creating a shared
# library.
compiler_lib_search_dirs=${LT_COMMAND_VAR(compiler_lib_search_dirs), $1}

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=${LT_COMMAND_VAR(compiler_lib_search_path), $1}

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=${LT_COMMAND_VAR(deplib_check_method)

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=${LT_COMMAND_VAR(file_magic_cmd)

---
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# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_[[]]_LT_AC_TAGVAR(allow_undefined_flag, $1)

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_[[]]_LT_AC_TAGVAR(no_undefined_flag, $1)

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be evaled but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_address

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$_LT_AC_TAGVAR(hardcode_action, $1)

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode $libdir into a binary during linking.
# This must work even if $libdir does not exist.
hardcode_libdir_flag_spec=$lt_[[]]_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)

# If ld is used when linking, flag to hardcode $libdir into
# a binary during linking. This must work even if $libdir does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_[[]]_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_[[]]_LT_AC_TAGVAR(hardcode_libdir_separator, $1)
Set to yes if using DIR/libNAME$[shared_ext] during linking hardcodes DIR into the resulting binary.
hardcode_direct=${_LT_AC_TAGVAR(hardcode_direct, $1)}

Set to yes if using the -LDIR flag during linking hardcodes DIR into the resulting binary.
hardcode_minus_L=${_LT_AC_TAGVAR(hardcode_minus_L, $1)}

Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into the resulting binary.
hardcode_shlibpath_var=${_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)}

Set to yes if building a shared library automatically hardcodes DIR into the library and all subsequent libraries and executables linked against it.
hardcode_automatic=${_LT_AC_TAGVAR(hardcode_automatic, $1)}

Variables whose values should be saved in libtool wrapper scripts and restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

Whether libtool must link a program against all its dependency libraries.
link_all_deplibs=${_LT_AC_TAGVAR(link_all_deplibs, $1)}

Compile-time system search path for libraries
sys_lib_search_path_spec=${lt_sys_lib_search_path_spec}

Run-time system search path for libraries
sys_lib_dlsearch_path_spec=${lt_sys_lib_dlsearch_path_spec}

Fix the shell variable \$srcfile for the compiler.
fix_srcfile_path=${lt_fix_srcfile_path}

Set to yes if exported symbols are required.
always_export_symbols=${_LT_AC_TAGVAR(always_export_symbols, $1)}

The commands to list exported symbols.
export_symbols_cmds=${lt_export_symbols_cmds}

The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=${lt_extract_expsyms_cmds}

Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=${lt_exclude_expsyms}

Symbols that must always be exported.
include_expsyms=${lt_include_expsyms}

ifelse([${$1}],[],)
ifelse([$1],[, [ case $host_os in
  aix3*)
    cat "<EOF" >> "$cfgfile"

  # AIX sometimes has problems with the GCC collect2 program. For some
  # reason, if we set the COLLECT_NAMES environment variable, the problems
  # vanish in a puff of smoke.
  if test "X${COLLECT_NAMES+set}" != Xset; then
    COLLECT_NAMES=
    export COLLECT_NAMES
    fi
  EOF
  ;;
  esac

  # We use sed instead of cat because bash on DJGPP gets confused if
  # if finds mixed CR/LF and LF-only lines. Since sed operates in
  # text mode, it properly converts lines to CR/LF. This bash problem
  # is reportedly fixed, but why not run on old versions too?
  sed 'S/q "ltmain" >> "cfgfile" / (rm -f "cfgfile"; exit 1)

  mv -f "$cfgfile" "$ofile" || 
    (rm -f "$ofile" && cp "$cfgfile" "$ofile" && rm -f "$cfgfile")
  chmod +x "$ofile"
}]
else
  # If there is no Makefile yet, we rely on a make rule to execute
  # 'config.status --recheck' to rerun these tests and create the
  # libtool script then.
  ltmain_in='echo $ltmain | sed -e s/\$\$/in/"
  if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
    fi
fi
})# AC_LIBTOOL_CONFIG

# AC_LIBTOOL_PROG_COMPILER_NO_RTTI([TAGNAME])
# -------------------------------------------
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_NO_RTTI], [AC_REQUIRE([LT_AC_SYS_COMPILER])]dnl
if test "$GCC" = yes; then
    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'
fi

AC_LIBTOOL_COMPILER_OPTION([[if $compiler supports -fno-rtti -fno-exceptions],
    lt_cv_prog_compiler_rtti_exceptions,
    [-fno-rtti -fno-exceptions], []],
    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)="$_LT_AC_TAGVAR(lt_prog_compiler_no builtin_flag, $1) -fno-rtti -fno-exceptions")

# AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
# -----------------------------
AC_DEFUN([AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE],
    [AC_REQUIRE([AC_CANONICAL_HOST])
    AC_REQUIRE([LT_AC_PROG_SED])
    AC_REQUIRE([AC_PROG_NM])
    AC_REQUIRE([AC_OBJCEXT])
    # Check for command to grab the raw symbol name followed by C symbol from nm.
    AC_MSG_CHECKING([command to parse $NM output from $compiler object])
    AC_CACHE_VAL([lt_cv_sys_global_symbol_pipe],
        []
        # These are sane defaults that work on at least a few old systems.
        # [They come from Ultrix. What could be older than Ultrix??! ;)]

        # Character class describing NM global symbol codes.
        symcode='[BCDEGRST]'

        # Regexp to match symbols that can be accessed directly from C.
        sympat='\([_A-Za-z][_A-Za-z0-9]*\)'

        # Transform an extracted symbol line into a proper C declaration
        lt_cv_sys_global_symbol_to cdecl="sed -n -e '/^\([._].*:.*\)$/p' -e 's/^[^: ]\([^ ]\)*$;\s/\1/;p' -e 's/^[^: ]\([^ ]\)*$;\s/\1/;p"'

        # Transform an extracted symbol line into symbol name and symbol address
        lt_cv_sys_global_symbol_to c name address="sed -n -e '/^\([^ ]\)*\$/p' -e 's/^[^: ]\([^ ]\)*$;\s/\1/;p"'

        # Define system-specific variables.
        case $host_os in
            aix*)
                symcode='[BCDT]'
            ;;
            cygwin* | mingw* | pw32*)
                symcode='[ABCDGISTW]'
            ;;
        esac
    ]
)
hpux*) # Its linker distinguishes data from code symbols
if test "$host_cpu" = ia64; then
    symcode='[[ABCDEGRST]]'
fi

lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \(.*\)/\1();/p' -e 's/^\$symcode\.* \(.*\)/\1;/p''
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \(\[[^\ ]]*\) $/  {"\1", (lt_ptr) 0},/p' -e \\
's/^\$symcode\.* \(\[[^\ ]]*\) \(\[[^\ ]]*\)/  {"\2", (lt_ptr) &\2},/p''
;;
linux* | k*bsd*-gnu)
if test "$host_cpu" = ia64; then
    symcode='[[ABCDGIRSTW]]'
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \(.*\)/\1();/p' -e 's/^\$symcode\.* \(.*\)/\1;/p''
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \(\[[^\ ]]*\) $/  {"\1", (lt_ptr) 0},/p' -e \\
's/^\$symcode\.* \(\[[^\ ]]*\) \(\[[^\ ]]*\)/  {"\2", (lt_ptr) &\2},/p''
fi
;;
irix* | nonstopux*)
symcode='[[BCDEGRST]]'
;;
osf*)
symcode='[[BCDEGQRST]]'
;;
solaris*)
symcode='[[BDRT]]'
;;
sco3.2v5*)
symcode='[[DT]]'
;;
sysv4.2uw2*)
symcode='[[DT]]'
;;
sysv5* | sco5v6* | unixware* | OpenUNIX*)
symcode='[[ABDT]]'
;;
sysv4)
symcode='[[DFNSTU]]'
;;
esac

# Handle CRLF in mingw tool chain
opt_cr=
    case $build_os in
        mingw*)
            opt_cr='echo \(x\{0,1\}\) | tr x \015' # option cr in regexp
    ;;
    esac

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# If we're using GNU nm, then use its standard symbol codes.
case $NM -V 2>&1 in
 *GNU* | *with BFD*)
  symcode="[[ABCDEFGHIJKLMNOPQRSTUVWXYZ]]" ;;
esac

# Try without a prefix underscore, then with it.
for ac_symprfx in "" "_; do

 # Transform symcode, sympat, and symprfx into a raw symbol and a C symbol.
symxfrm="\1 $ac_symprfx\2 \2"

 # Write the raw and C identifiers.
lc_cv_sys_global_symbol_pipe="sed -n -e 's/^.*\[\[ \t\]\]\($symcode$symcode*\)\[\[ \t\]\]\[[ ]][ ]*$ac_symprfx$sympat$opt_cr$/\symxfrm/p'"

 # Check to see that the pipe works correctly.
pipe_works=no

 rm -f conftest*
cat > conftest.$ac_ext <<EOF
 #ifdef __cplusplus
 extern "C" {
 #endif
c char nm_test_var;
 void nm_test_func();
 #ifdef __cplusplus
 }"n_test_func();return(0);"
 EOF

 if AC_TRY_EVAL(ac_compile); then
  # Now try to grab the symbols.
nlist=conftest.nm
  if AC_TRY_EVAL(NM conftest.$ac_objext \| $lt_cv_sys_global_symbol_pipe \| $nlist) & & test -s "$nlist"; then
   # Try sorting and uniquifying the output.
   if sort "$nlist" | uniq > "$nlist"T; then
    mv -f "$nlist"T "$nlist"
   else
    rm -f "$nlist"T
    fi

   # Make sure that we snagged all the symbols we need.
   if grep ' nm_test_var$' "$nlist" >/dev/null; then
    if grep ' nm_test_func$' "$nlist" >/dev/null; then

cat <<EOF > conftest.$ac_ext
#elif __cplusplus
extern "C" {
#else
EOF

# Now generate the symbol file.
eval "Slt_cv_sys_global_symbol_to_cdecl"" < "$nlist" | grep -v main >> conftest.$ac_ext'

EOF

cat <<EOF >> conftest.$ac_ext
#if defined (__STDC__) && __STDC__
#define lt_ptr_t void *
#else
#define lt_ptr_t char *
#define const
#endif

/* The mapping between symbol names and symbols. */
const struct {
    const char *name;
    lt_ptr_t address;
} lt_preloaded_symbols[] =
{
EOF
$SED "s/^$symcode$symcode* (.*) (.*)$/ {"$l2v", (lt_ptr_t) $1},/" "$nlist" | grep -v main >>
conftest.$ac_ext
    cat <<EOF >> conftest.$ac_ext
    {0, (lt_ptr_t) 0}
};

#endif
EOF

#else
EOF

# Now try linking the two files.
mv conftest.$ac_objext confstm.$ac_objext
lt_save_LIBS="$LIBS"
lt_save_CFLAGS="$CFLAGS"
LIBS="confstm.$ac_objext"
CFLAGS="$CFLAGS$LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)"
if AC_TRY_EVAL(ac_link) && test -s conftest$ac_exeext; then
    pipe_works=yes
else
    echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
fi
LIBS="$lt_save_LIBS"
CFLAGS="$lt_save_CFLAGS"

else
    echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
else
  echo "cannot find nm_test_var in $nlist" >&AS_MESSAGE_LOG_FD
fi
else
  echo "cannot run $lt_cv_sys_global_symbol_pipe" >&AS_MESSAGE_LOG_FD
fi
else
  echo "$progname: failed program was:" >&AS_MESSAGE_LOG_FD
cat conftest.$ac_ext >&5
fi
rm -rf conftest* confst*

# Do not use the global_symbol_pipe unless it works.
if test "$pipe_works" = yes; then
  break
else
  lt_cv_sys_global_symbol_pipe=
fi
done
)
if test -z "$lt_cv_sys_global_symbol_pipe"; then
  lt_cv_sys_global_symbol_to_cdecl=
fi
if test -z "$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
  AC_MSG_RESULT(failed)
else
  AC_MSG_RESULT(ok)
fi
) # AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE

# AC_LIBTOOL_PROG_COMPILER_PIC([TAGNAME])
# ---------------------------------------
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_PIC],
[_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=
 _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
 _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=
AC_MSG_CHECKING([for $compiler option to produce PIC])
ifelse([$1],[CXX],[
  # C++ specific cases for pic, static, wl, etc.
  if test "$GXX" = yes; then
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-static'
  case $host_os in
    aix*)

# All AIX code is PIC.
if test "$host_cpu" = ia64; then

# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='Bstatic'
fi

::
amigaos*)
 # FIXME: we need at least 68020 code to build shared libraries, but
 # adding the '-m68020' flag to GCC prevents building anything better,
 # like -m68040'.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
::
beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
# PIC is the default for these OSes.
::
mingw* | cygwin* | os2* | pw32*)
 # This hack is so that the source file can tell whether it is being
 # built for inclusion in a dll (and should export symbols for example).
 # Although the cygwin gcc ignores -fPIC, still need this for old-style
 # (--disable-auto-import) libraries
m4_if($[$1], [GCJ], [],
[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
::
darwin* | rhapsody*)
 # PIC is the default on this platform
 # Common symbols not allowed in MH_DYLIB files
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
::
djgpp*)
 # DJGPP does not support shared libraries at all
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
::
interix[[3-9]*]
 # Interix 3.x gcc -fPIC/-fPIC options generate broken code.
 # Instead, we relocate shared libraries at runtime.
::
sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=Kconform_pic
fi
::
hpux*)
 # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
 # not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
::
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
::
  esac
::
*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
  esac
else
  case $host_os in
    aix[4-9]*)
      # All AIX code is PIC.
      if test "$host_cpu" = ia64; then
        # AIX 5 now supports IA64 processor
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      else
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bno -bI:/lib/syscalls.exp'
      fi
    ::
    chorus*)
      case $cc_basename in
        cxch68*)
          # Green Hills C++ Compiler
          # _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="--no_auto_instantiation -u __main -u __premain -u _abort -r
          $COOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a $MVME_DIR/lib/classix/libcx.s.a"
        ::
        esac
    ::
    darwin*)
      # PIC is the default on this platform
      # Common symbols not allowed in MH_DYLIB files
      case $cc_basename in
        xlc*)
          _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
          _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
        ::
        esac
      ::
      dgux*)
        case $cc_basename in
          ec++*)
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
          ::
          ghcx*)
            # Green Hills C++ Compiler
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
          ::
          *)
freebsd* | dragonfly*)
# FreeBSD uses GNU C++

hpux9* | hpux10* | hpux11*)
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
    if test "$host_cpu" != ia64; then
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
      fi
    aCC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog Compiler static, $1)='${wl}-a ${wl}archive'
    case $host_cpu in
      hppa*64*|ia64*)
        # +Z the default
      esac
    *)
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='+Z'
    esac
  esac
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KCC*)
# KAI C++ Compiler
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)= '-backend -Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)= '-fPIC'
::
icpc* | ecpc*)
# Intel C++
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)= '-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)= '-fPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)= '-static'
::
pGCC* | pgcpp*)
# Portland Group C++ compiler.
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)= '-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)= '-fpic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)= '-Bstatic'
::
cxx*)
# Compaq C++
# Make sure the PIC flag is empty. It appears that all Alpha
# Linux and Compaq Tru64 Unix objects are PIC.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)= '-non_shared'
:: *
)
case `$CC -V 2>&1 | sed 5q` in
*Sun\ C*)
# Sun C++ 5.9
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)= '-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)= '-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)= '-Qoption ld '
::
esac
::
esac
::
 lynxos*)
::
m88k*)
::
mvs*)
case $cc_basename in
 cxx*)
 _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)= '-W c,exportall'
:: *
)
::
esac

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case $cc_basename in
  KCC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=--backend -Wl,'
    ;;
  RCC*)
    # Rational C++ 2.4.1
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    ;;
  cxx*)
    # Digital/Compaq C++
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    # Make sure the PIC flag is empty. It appears that all Alpha
    # Linux and Compaq Tru64 Unix objects are PIC.
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
    ;;
  *)
  ;;
  esac
  ;;
  psos*)
  ;;
  esac
  ;;
  solaris*)
  ;;
case $cc_basename in
  CC*)
    # Sun C++ 4.2, 5.x and Centerline C++
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
    ;;
  gcx*)
    # Green Hills C++ Compiler
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
    ;;
  *)
  ;;
  esac
  ;;
  sunos4*)
  ;;
case $cc_basename in
  CC*)
    # Sun C++ 4.x
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;
lce*)
  # Lucid
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
  *
  esac
  tandem*)
  case $cc_basename in
    NCC*)
      # NonStop-UX NCC 3.20
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
      *
      esac
    esac
    *
    sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
  case $cc_basename in
    CC*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      *
      esac
    vxworks*)
    *
    esac
  esac
  vxworks*)
  *
  esac
fi
]
[
if test "$GCC" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi

  case $host_os in
    aix*)
      # All AIX code is PIC.
      if test "$host_cpu" = ia64; then
        # AIX 5 now supports IA64 processor
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      fi

amigaos*)
  # FIXME: we need at least 68020 code to build shared libraries, but
  # adding the '-m68020' flag to GCC prevents building anything better,
  # like '-m68040'.
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'

beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
  # PIC is the default for these OSes.

mingw* | cygwin* | pw32* | os2*)
  # This hack is so that the source file can tell whether it is being
  # built for inclusion in a dll (and should export symbols for example).
  # Although the cygwin gcc ignores -fPIC, still need this for old-style
  # (--disable-auto-import) libraries
  m4_if([$1], [GCJ], [],
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT')

darwin* | rhapsody*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'

interix[[3-9]]*)
  # Interix 3.x gcc -fpic/-fPIC options generate broken code.
  # Instead, we relocate shared libraries at runtime.

msdosdjgpp*)
  # Just because we use GCC doesn't mean we suddenly get shared libraries
  # on systems that don't support them.
  _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  enable_shared=no

  sysv4*MP*)
    if test -d /usr/nec; then
      _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=Kconform_pic
    fi

hpux*)
  # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.

```bash
case $host_cpu in
  hppa*64*|ia64*)
    # +Z the default
    ;;
    *)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
      ;;
      esac
    ;;
    *)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
      ;;
      esac
else
  # PORTME Check for flag to pass linker flags through the system compiler.
  case $host_os in
    aix*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      if test "$host_cpu" = ia64; then
        # AIX 5 now supports IA64 processor
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      else
        _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      fi
      ;;
      darwin*)
        # PIC is the default on this platform
        # Common symbols not allowed in MH_DYLIB files
        case $cc_basename in
          xlc*)
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
            _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
            ;;
            esac
          ;;
          mingw* | cygwin* | pw32* | os2*)
            # This hack is so that the source file can tell whether it is being
            # built for inclusion in a dll (and should export symbols for example).
            m4_if([$1], [GCJ], [],
              _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'
            )
          ;;
          hpux9* | hpux10* | hpux11*)
            _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
            # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
```
# not for PA HP-UX.
case $host_cpu in
  hppa*64*|ia64*)
# +Z the default
  ;;
  *)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
  ;;
  esac

# Is there a better lt_prog_compiler_static that works with the bundled CC?
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
  ;;

irix5* | irix6* | nonstopux*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# PIC (with -KPIC) is the default.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;

newsos6)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;

linux* | k*bsd*-gnu)
case $cc_basename in
  icc* | ccc*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
  ;;
  pgcc* | pgf77* | pgf90* | pgf95*)
  # Portland Group compilers (*not* the Pentium gcc compiler,
  # which looks to be a dead project)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;
  ccc*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # All Alpha code is PIC.
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;
  *)
  case 'Scc -V 2>&1 | sed 5q' in
  *Sun\ C*)
  # Sun C 5.9
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'

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_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
;;
*Sun\ F*)
# Sun Fortran 8.3 passes all unrecognized flags to the linker
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)="
;;
esac
;;
esac
;;

osf3* | osf4* | osf5*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# All OSF/1 code is PIC.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
rdos*)
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
solaris*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
case $cc_basename in
f77* | f90* | f95*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld ';;
*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl;',
esac
;;
sunos4*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
sysv4 | sysv4.2uw2* | sysv4.3*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
sysv4*MP*)

if test -d /usr/nec ;then
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-Kconform_pic'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi
;

sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  :
unicos*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  :
uts4*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  :
*)
  _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  :
esac
fi
)
AC_MSG_RESULT([$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)])
#
# Check to make sure the PIC flag actually works.
#
if test -n "$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ; then
  AC_LIBTOOL_COMPILER_OPTION([if $compiler PIC flag $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) works],
    _LT_AC_TAGVAR(lt_cv_prog_compiler_pic_works, $1),
    [$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[],[-DPIC],[ifelse([$1],[CXX],[-DPIC],[])])]. [],
    [case $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) in
      "" | ""*") ;;
    *) _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=" $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ;;
esac],
    [LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
      _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no])
fi
case $host_os in
  # For platforms which do not support PIC, -DPIC is meaningless:
  *djgpp*)
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# Check to make sure the static flag actually works.
#
wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1) eval
lt_tmp_static_flag="$_LT_AC_TAGVAR(lt_prog_compiler static, $1)"
AC_LIBTOOL_LINKER_OPTION([if $compiler static flag $lt_tmp_static_flag works],
_LT_AC_TAGVAR(lt_cv_prog_compiler static_works, $1),
$lt_tmp_static_flag, 
[.],
[_LT_AC_TAGVAR(lt_prog_compiler static, $1)]=]
)

# AC_LIBTOOL_PROG_LD_SHLIBS([TAGNAME])
# ------------------------------------
# See if the linker supports building shared libraries.
AC_DEFUN([AC_LIBTOOL_PROG_LD_SHLIBS],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
ifelse([$1], [CXX], 
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED "s/.*
/\n" | sort | uniq > $export_symbols'
case $host_os in
  aix[4-9]*)
    # If we're using GNU nm, then we don't want the "-C" option.
    # -C means demangle to AIX nm, but means don't demangle with GNU nm
    if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -Bpg $libobjs $convenience | awk '{ if ($(\$2 == "T") || ($2 == "D") || ($2 == "B") && (substr($3,1,1) != ".") ) { print \$3 } }' | sort -u > $export_symbols'
    else
      _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -BCpg $libobjs $convenience | awk '{ if ($(\$2 == "T") || ($2 == "D") || ($2 == "B") && (substr($3,1,1) != ".") ) { print \$3 } }' | sort -u > $export_symbols'
    fi
  ::
pw32*)
    _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ltdll_cmds"
  ::
cygwin* | mingw*)
    _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM $libobjs $convenience | $global_symbol Pipe | $SED -e
# include_expsyms should be a list of space-separated symbols to be *always*
# included in the symbol list
_LT_AC_TAGVAR(include_expsyms, $1)=

# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by '(' and ')$', so one must not match beginning or
# end of line. Example: 'ab|.*.*d.*' will exclude the symbols 'a' and 'bc',
# as well as any symbol that contains 'd'.
_LT_AC_TAGVAR(exclude_expsyms, $1)=['GLOBAL_OFFSET_TABLE_|GLOBAL__F[ID]_[*]'

# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (a)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.

# Exclude shared library initialization/finalization symbols.
dnl Note also adjust exclude_expsyms for C++ above.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.
_LT_CC_BASENAME([$compiler])
case $host_os in
cygwin* | mingw* | pw32*)
  # FIXME: the MSVC++ port hasn't been tested in a loooong time
  # When not using gcc, we currently assume that we are using
  # Microsoft Visual C++.
  if test "$GCC" != yes; then
    with_gnu_ld=no
  fi
  ;;
interix*)
  # we just hope/assume this is gcc and not c89 (= MSVC++)
  with_gnu_ld=yes
  ;;
openbsd*)
  with_gnu_ld=no
  ;;
esac

_LT_AC_TAGVAR(ld_shlibs, $1)=yes
if test "$with_gnu_ld" = yes; then
  # If archive_cmds runs LD, not CC, wlarc should be empty
  wlarc="${wl}"
fi

# Set some defaults for GNU ld with shared library support. These
# are reset later if shared libraries are not supported. Putting them
# here allows them to be overridden if necessary.
runpath_var=LD_RUN_PATH
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="${wl}--rpath ${wl}$libdir"
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="${wl}--export-dynamic"
# ancient GNU ld didn't support --whole-archive et. al.
if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="${wl}--whole-archive$convenience "${wl}--no-whole-archive"
else
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="${wl}"
fi

supports_anon_versioning=no
case '$LD -v 2>/dev/null' in
  *
    # catch versions < 2.11
  *
    # RH7.3 ...
  *
    # other 2.11 versions
esac
# See if GNU ld supports shared libraries.
case $host_os in
aix[[3-9]]*)
  # On AIX/PPC, the GNU linker is very broken
  if test "$host_cpu" != ia64; then
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    cat <<EOF 1>&2
    *** Warning: the GNU linker, at least up to release 2.9.1, is reported
    *** to be unable to reliably create shared libraries on AIX.
    *** Therefore, libtool is disabling shared libraries support.  If you
    *** really care for shared libraries, you may want to modify your PATH
    *** so that a non-GNU linker is found, and then restart.
    EOF
    fi
  ;;

amigaos*)
  _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
  > $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo
  "#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >>
  $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir &&
  a2ixlibrary -32)'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes

  # Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports
  # that the semantics of dynamic libraries on AmigaOS, at least up
  # to version 4, is to share data among multiple programs linked
  # with the same dynamic library.  Since this doesn't match the
  # behavior of shared libraries on other platforms, we can't use
  # them.
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;

beos*)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
    # support --undefined.  This deserves some investigation.  FIXME
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-soname
    $wl$soname -o $lib"
    else
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      fi
  ;;
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
# as there is no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
_LT_AC_TAGVAR(export_symbols_cmds, $1)='-NM $libobjs $convenience $global_symbol_pipe $SED -e \"/^[BCDGRS][ ][ ]/s/.*[ ][ ]/\1 DATA/\DJ -e \"/^[AITW][ ][ ]/s/.*[ ][ ]///\ sort | uniq $export_symbols'

if SLD --help 2>&1 | grep 'auto-import' /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags -o $output_objdir/$soname $w1--enable-auto-image-base -X linker --out-implib -X linker $lib"
  # If the export-symbols file already is a .def file (1st line
  # is EXPORTS), use it as is; otherwise, prepend...
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="/test "x$SED 1q $export_symbols" = xEXPORTS; then
    cp $export_symbols $output_objdir/$soname.def;
  else
    echo EXPORTS > $output_objdir/$soname.def;
    cat $export_symbols >> $output_objdir/$soname.def;
  fi;
  $CC -shared $output_objdir/$soname_def $libobjs $deplibs $compiler_flags -o $output_objdir/$soname $w1--enable-auto-image-base -X linker --out-implib -X linker $lib"
  else
    _LT_AC_TAGVAR(archive_cmds, $1)=no
    fi
  ;;

  interix[[3-9]]*
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
  # Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
  # Instead, shared libraries are loaded at an image base (0x10000000 by
  # default) and relocated if they conflict, which is a slow very memory
  # consuming and fragmenting process. To avoid this, we pick a random,
  # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
  # time. Moving up from 0x10000000 also allows more sbrk(2) space.
  _LT_AC_TAGVAR(archive_cmds, $1)="/CC-shared $pic_flag $libobjs $deplibs $compiler_flags $w1-h,$soname $w1--image-base,\expr $[RANDOM-$]$ % 4096 / 2 \* 262144 + 1342177280 -o $lib"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="/sed "s,^,_," $export_symbols
  >$output_objdir/$soname.expsym=\$CC -shared $pic_flag $libobjs $deplibs $compiler_flags $w1-h,$soname $w1--image-base,\expr $[RANDOM-$]$ % 4096 / 2 \* 262144 + 1342177280 -o $lib"
  ;;

gnu* | linux* | k*bsd*-gnu)
if SLD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
tmp_addflag=
case $cc_basename,$host_cpu in
pgcc*)				# Portland Group C compiler

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$w1"--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-whole-archive'

tmp_addflag=' $pic_flag'
;
pgf77* | pgf90* | pgf95*)	# Portland Group f77 and f90 compilers

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$w1"--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-whole-archive'

tmp_addflag=' $pic_flag -Mnomain' ;;
ecc*,ia64* | ice*,ia64*)# Intel C compiler on ia64

tmp_addflag=' -i_dynamic' ;;
efc*,ia64* | ifort*,ia64*)# Intel Fortran compiler on ia64

tmp_addflag=' -i_dynamic -nofor_main' ;;
ifc* | ifort*)# Intel Fortran compiler

tmp_addflag=' -nofor_main' ;;
esac

_tol_AC_TAGVAR(archive_cmds, $1)='$CC'"$tmp_sharedflag""$tmp_addflag""$libobjs $deplibs
$compiler_flags $w1$w1$soname -o $lib'

if test $supports_anon_versioning = yes; then

_LT_AC_TAGVAR(archive_cmds, $1)="$echo " [ global:" > $output_objdir/$libname.ver~
cat $export_symbols | sed -e "s/\((.*)\)/\1/" >> $output_objdir/$libname.ver~
$echo "local: *; };") $output_objdir/$libname.ver~
$CC "$tmp_sharedflag" "$tmp_addflag" $libobjs $deplibs
$compiler_flags $w1$w1$soname $wl$soname -o $lib'

fi
else

_LT_AC_TAGVAR(id_shlibs, $1)=no

fi
 ;;

netbsd*
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable $libobjs $deplibs $linker_flags -o $lib'
  wlarc=
else
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags $wl$soname
  $wl$soname -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags $wl$soname
  $wl$soname $wl$retain-symbols-file $wl$export_symbols -o $lib'
fi

solaris*)
  if $LD -v 2>&1 | grep 'BFD 2.8' > /dev/null; then
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    cat <<EOF 1>&2
    *** Warning: The releases 2.8.* of the GNU linker cannot reliably
    *** create shared libraries on Solaris systems. Therefore, libtool
    *** is disabling shared libraries support. We urge you to upgrade GNU
    *** binutils to release 2.9.1 or newer. Another option is to modify
    *** your PATH or compiler configuration so that the native linker is
    *** used, and then restart.
    EOF
  elif $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags $wl$soname
    $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags $wl$soname
    $wl$soname $wl$retain-symbols-file $wl$export_symbols -o $lib'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi

EOF
  elif $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    cat <<EOF 1>&2
    *** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
    *** reliably create shared libraries on SCO systems. Therefore, libtool
    *** is disabling shared libraries support. We urge you to upgrade GNU
    *** binutils to release 2.16.91.0.3 or newer. Another option is to modify
    *** your PATH or compiler configuration so that the native linker is
    *** used, and then restart.
    EOF

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
case 'LD -v 2>&1' in
  */\[[01]\]* | */2.([0-9])* | */2.1[[0-5]].*)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    cat <<_LT_EOF 1>&2
    *** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
    *** reliably create shared libraries on SCO systems. Therefore, libtool
    *** is disabling shared libraries support. We urge you to upgrade GNU
    *** binutils to release 2.16.91.0.3 or newer. Another option is to modify
    *** your PATH or compiler configuration so that the native linker is
    *** used, and then restart.
    _LT_EOF

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if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-rpath,$libdir"
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname,${SCOABSPATH:+${install_libdir}/}$soname -o $lib"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname,${SCOABSPATH:+${install_libdir}/}$soname,-retain-symbols-file,$export_symbols -o $lib"
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;
;
esac
;
;
sunos4*)
  _LT_AC_TAGVAR(archive_cmds, $1)="$LD -assert pure-text -Bshareable -o $lib $libobjs $deplibs $linker_flags"
  wlarc=
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;
  ;
*)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname -o $lib"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib"
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
  ;
  esac
  if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
    runpath_var=
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
    fi
  else
    # PORTME fill in a description of your system's linker (not GNU ld)
    case $host_os in
      aix3*)
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
        _LT_AC_TAGVAR(always_export_symbols, $1)=yes
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$LD -o $output_objdir/$soname $libobjs $deplibs

$linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE=$AR $AR_FLAGS $lib $output_objdir/$soname'

# Note: this linker hardcodes the directories in LIBPATH if there
# are no directories specified by -L.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  if test "$SGCC" = yes && test -z "$lt_prog_compiler_static"; then
# Neither direct hardcoding nor static linking is supported with a
# broken collect2.
_LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
  fi

  ;;

  aix[4-9][*]
    if test "$host_cpu" = ia64; then
# On IA64, the linker does run time linking by default, so we don't
# have to do anything special.
aix_use_runtimelinking=no
  exp_sym_flag='-Bexport'
  no_entry_flag=""
  else
# If we're using GNU nm, then we don't want the "-C" option.
# -C means demangle to AIX nm, but means don't demangle with GNU nm
if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
else
  fi
  aix_use_runtimelinking=no
# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.[23][aix4.[23].*aix[5-9][*])
  for ld_flag in $LDFLAGS; do
    if (test $ld_flag = "-brtl" || test $ld_flag = ".Wl,-brtl"); then
      aix_use_runtimelinking=yes
      break
    fi
  done
  ;;
  esac

exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
  fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mmimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)=''
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GCC" = yes; then
case $host_os in
  aix4.[012]
  aix4.[012].*)
    # We only want to do this on AIX 4.2 and lower, the check
    # below for broken collect2 doesn't work under 4.3+
    collect2name='${CC} -print-prog-name=collect2'
    if test -f "$collect2name" && \
      strings "$collect2name" | grep resolve_lib_name >/dev/null
    then
      # We have reworked collect2
      :
    else
      # We have old collect2
      _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
      # It fails to find uninstalled libraries when the uninstalled
      # path is not listed in the libpath. Setting hardcode_minus_L
      # to unsupported forces relinking
      _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L\$libdir'
      _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
      fi
    ;;
esac
else
  shared_flag=':-shared'
  if test "$aix_use_runtimelinking" = yes; then
    shared_flag="$shared_flag "'${wl}-G'
  fi
  else
    # not using gcc
    if test "$host_cpu" = ia64; then
      # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
      # chokes on -Wl,-G. The following line is correct:
      shared_flag=':-G'
    else
      if test "$aix_use_runtimelinking" = yes; then
        shared_flag='${wl}-G'
      else
        shared_flag='${wl}-bM:SRE'
      fi
    fi
  fi
It seems that `-bexpall` does not export symbols beginning with underscore (_), so it is better to generate a list of symbols to export.

```bash
LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# `-berok` will link without error, but may produce a broken library.
LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
    # Determine the default libpath from the value encoded in an empty executable.
    LT_AC_SYS_LIBPATH_AIX
    LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
    LT_AC_TAGVAR(archive_expsym_cmds, $1)="/\$CC" -o $output_objdir/$soname $libobjs $deplibs
        "$\{wl\}$$\{no_entry_flag\}" $compiler_flags "if test "x\$\{allow_undefined_flag\}" != "x"; then echo
            "$\{wl\}$$\{allow_undefined_flag\}"; else ;; fi ""$\{wl\}$$\{exp_sym_flag\}$$\{export_symbols\} $shared_flag"
    else
        if test ""$\{host_cpu\}" = ia64; then
            LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $libdir:/usr/lib:/lib'
            LT_AC_TAGVAR(allow_undefined_flag, $1)='-z nodefs'
            LT_AC_TAGVAR(archive_expsym_cmds, $1)="/\$CC $\{shared_flag\}" -o $output_objdir/$soname $libobjs $deplibs
                "$\{wl\}$$\{no_entry_flag\}" $compiler_flags "$\{wl\}$$\{allow_undefined_flag\}"
                "$\{wl\}$$\{exp_sym_flag\}$$\{export_symbols\}
        else
            # Determine the default libpath from the value encoded in an empty executable.
            LT_AC_SYS_LIBPATH_AIX
            LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
            LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
            LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
            # Exported symbols can be pulled into shared objects from archives
            LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
            LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
            # This is similar to how AIX traditionally builds its shared libraries.
            LT_AC_TAGVAR(archive_expsym_cmds, $1)="/\$CC $\{shared_flag\}" -o $output_objdir/$soname $libobjs $deplibs
                "$\{wl\}$\{no_entry_flag\}" Scomplier_flags "$\{wl\}$$\{allow_undefined_flag\}~$AR $AR_FLAGS
                $output_objdir/$libname$release.a $output_objdir/$soname'
        fi
    fi
fi
```

```bash
ar aixlibrary -32
rm a2ixlibrary.data~echo "#define NAME $libname"
> a2ixlibrary.data~echo "#define LIBRARY_ID 1" >> a2ixlibrary.data~echo "#define VERSION $major" >> a2ixlibrary.data~echo "#define REVISION $revision" >> a2ixlibrary.data~AR $AR_FLAGS
a2ixlibrary.data~$libname$release.a a2ixlibrary.data~cd a2ixlibrary ~a2ixlibrary -32
```
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-'SLibdir'
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
# see comment about different semantics on the GNU ld section
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;
;
bsdi[*]
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=rdynamic
;
;
cygwin* | mingw* | pw32*)
# When not using gcc, we currently assume that we are using
# Microsoft Visual C++.
# hardcode_libdir_flag_spec is actually meaningless, as there is
# no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Tell ltmain to make .lib files, not .a files.
libext=lib
# Tell ltmain to make .dll files, not .so files.
shrext_cmds=".dll"
# FIXME: Setting linknames here is a bad hack.
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -o $lib $libobjs $compiler_flags 'echo "$deplibs" | $SED -e "s/-/\"-link\" -dll\"-linknames="
# The linker will automatically build a .lib file if we build a DLL.
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)=true'
# FIXME: Should let the user specify the lib program.
_LT_AC_TAGVAR(old_archive_cmds, $1)="lib -OUT:$oldlib$oldobjs$old_deplibs'
_LT_AC_TAGVAR(fix_srcfile_path, $1)="cygpath -w "$srcfile"
_ LT_AC_TAGVAR(whole_archive_flag_spec, $1)=""
_ LT_AC_TAGVAR(link_all_deplibs, $1)=yes
if test "$GCC" = yes ; then
output_verbose_link_cmd='echo'
_ LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $ltdar -single_mod$[ldsymutil]"
_ LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags$[ldsymutil]"
_ LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's/,/\"/g' < $export_symbols >$
\$output_objdir/$[libname]"-symbols.expsym "$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs
# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*

```bash
_LT_AC_TAGVAR(archive_cmds, $1)='"LD -Bshareable -o $lib $libobjs $deplibs $linker_flags"
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
```

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | dragonfly*)

```bash
_LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared -o $lib $libobjs $deplibs $compiler_flags}'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-${wl}$libdir'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
```

hpux9*)

```bash
if test "$GCC" = yes; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/$soname-$CC -shared -fPIC ${wl}+b
$[wl]install_libdir -o $output_objdir/$soname $libobjs $deplibs $compiler_flags-test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
else
  _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/$soname-$LD -b +b $install_libdir -o
$output_objdir/$soname $libobjs $deplibs $linker_flags-test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
fi

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
```

# hardcode_minus_L: Not really in the search PATH, 
# but as the default location of the library.
hpux10*)

```bash
if test "$GCC" = yes -a "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir
-o $lib $libobjs $deplibs $compiler_flags' 
else
  _LT_AC_TAGVAR(archive_cmds, $1)='${LD -b +h $soname +b $install_libdir -o $lib $libobjs $deplibs
$ linker_flags'
fi
```

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---
# hardcoded_minus_L: Not really in the search PATH,  
# but as the default location of the library.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
fi

hpux11*)
  if test "$GCC" = yes -a "$with_gnu_ld" = no; then
    case $host_cpu in
    hppa*64*)
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $wl$soname -o $lib $libobjs $deplibs 
        $compiler_flags";
    esac
    i686*)
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $wl$soname $wl$install_libdir -o $lib 
        $libobjs $deplibs $compiler_flags";
      esac
    esac
    esac
    else
      case $host_cpu in
      hppa*64*)
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $wl$soname -o $lib $libobjs $deplibs 
          $compiler_flags";
      esac
      i686*)
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $wl$soname $wl$install_libdir -o $lib 
          $libobjs $deplibs $compiler_flags";
        esac
      esac
    esac
  fi
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$libdir" 
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=: 
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="$E"
    
    # hardcode_minus_L: Not really in the search PATH,  
    # but as the default location of the library.
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    fi
    ;;

    hpux11*)
      if test "$GCC" = yes -a "$with_gnu_ld" = no; then
        case $host_cpu in
        hppa*64*)
          _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $wl$soname -o $lib $libobjs $deplibs 
            $compiler_flags";
        esac
        i686*)
          _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $wl$soname $wl$install_libdir -o $lib 
            $libobjs $deplibs $compiler_flags";
          esac
        esac
        esac
      else
        case $host_cpu in
        hppa*64*)
          _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $wl$soname -o $lib $libobjs $deplibs 
            $compiler_flags";
        esac
        i686*)
          _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $wl$soname $wl$install_libdir -o $lib 
            $libobjs $deplibs $compiler_flags";
        esac
      esac
    fi
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$libdir" 
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
case $host_cpu in
   hppa*64*|ia64*)
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=+b $libdir'
        _LT_AC_TAGVAR(hardcode_direct, $1)=no
        _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
        ;;
    *)
        _LT_AC_TAGVAR(hardcode_direct, $1)=yes
        _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
        ;
    esac

    irix5* | irix6* | nonstopux*)
    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
        $[wl]$soname test -n "$verstring" && echo $[wl]-set_version $[wl]$verstring $[wl]-update_registry
        $[wl]$[output_objdir]/so_locations -o $lib'
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared $libobjs $deplibs $linker_flags -soname $soname test -n
        "$verstring" && echo -set_version $verstring -update_registry $[output_objdir]/so_locations -o $lib'
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
        ;
    esac

    netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags' # a.out
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared -o $lib $libobjs $deplibs $linker_flags' # ELF
    fi

    newsos6)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-b $libdir'
    ;

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_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;

openbsd*)
if test -f /usr/libexec/ld.so; then
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags $libdir"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags $libdir"
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
else
   case $host_os in
   openbsd[[01]].* | openbsd2.([0-7]) | openbsd2.([0-7]).*)
   _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags $libdir"
   _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
   ;;
   *)
   _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags $libdir"
   _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
   ;;
   esac
fi
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;
;

os2*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_libdir_flag, $1)=yes
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(archive_cmds, $1)='"LIBRARY $libname INITINSTANCE" > $output_objdir/$libname.def~`
$echo "DESCRIPTION "$libname"
$echo " SINGLE NONSHARED" >> $output_objdir/$libname.def~`
$echo EXPORTS >> $output_objdir/$libname.def~'
emxexp $libobjs
emximp -o $output_objdir/$libname.a
;
;

osf3*)
if test "$GCC" = yes; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)="$CC -shared$allow_undefined_flag $libobjs $deplibs $compiler_flags $output_objdir/$libname.def'
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='emximp -o $output_objdir/$libname.a
$output_objdir/$libname.def'
;
;

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$_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "[ global:" > $lib.exp~cat $export_symbols | $SED -e "s/(.*)/\1;/" >> $lib.exp~
$LD -G$[allow_undefined_flag] -M $lib.exp -h $soname -o $lib $libobjs $deplibs $linker_flags~$rm $lib.exp'
fi

$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

case $host_os in
  solaris2.[0-5] | solaris2.[0-5].*) ;;
  *)
    # The compiler driver will combine and reorder linker options,
    # but understands `-z linker_flag'. GCC discards it without '$wl',
    # but is careful enough not to reorder.
    # Supported since Solaris 2.6 (maybe 2.5.1?)
    if test "$GCC" = yes; then
      $_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z ${wl}allextract$convenience ${wl}-z
      $[wl]defaultextract'
    else
      $_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='-z allextract$convenience -z defaultextract'
    fi
  ;;
esac

sunos4*)
  if test "x$host_vendor" = xsequent; then
    # Use $CC to link under sequent, because it throws in some extra .o
    # files that make .init and .fini sections work.
    $_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G -h $soname -o $lib $libobjs $deplibs $compiler_flags'
  else
    $_LT_AC_TAGVAR(archive_cmds, $1)='$LD -assert pure-text -Bstatic -o $lib $libobjs $deplibs $linker_flags'
  fi

$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
$_LT_AC_TAGVAR(hardcode_direct, $1)=yes
$_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

;;
sysv4)
  case $host_vendor in
    sni)
      $_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
      $_LT_AC_TAGVAR(hardcode_direct, $1)=yes # is this really true???
    ;;
    siemens)
      ## LD is ld it makes a PLAMLIB
      ## CC just makes a GrossModule.
    ;;
  esac

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LT_AC_TAGVAR(archive_cmds, $1)='\$LD -G -o $lib $libobjs $deplibs $linker_flags'
LT_AC_TAGVAR(reload_cmds, $1)='\$CC -r -o $output reload_objs'
LT_AC_TAGVAR(hardcode_direct, $1)=no
;
motorola
LT_AC_TAGVAR(archive_cmds, $1)='\$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
LT_AC_TAGVAR(hardcode_direct, $1)=no #Motorola manual says yes, but my tests say they lie
;
esac
runpath_var='LD_RUN_PATH'
LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;
;
sysv4.3*)
LT_AC_TAGVAR(archive_cmds, $1)='\$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='-Bexport'
;
;
sysv4*MP*)
if test -d /usr/nec; then
LT_AC_TAGVAR(archive_cmds, $1)='\$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var=LD_RUN_PATH
hardcode_runpath_var=yes
LT_AC_TAGVAR(ld_shlibs, $1)=yes
fi
;
;
sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.* | unixware7* | sco3.2v5.0.* | sco3.2v5.* | unixware7*)
LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var='LD_RUN_PATH'
;if test "SGCC" = yes; then
LT_AC_TAGVAR(archive_cmds, $1)="\$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
else
LT_AC_TAGVAR(archive_cmds, $1)="\$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
fi
;
;
sysv5* | sco3.2v5* | sco5v6*)
# Note: We can NOT use -z defs as we might desire, because we do not
# link with -lc, and that would cause any symbols used from libc to
# always be unresolved, which means just about no library would
# ever link correctly. If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn't as heavy-handed
# as -z defs.

```bash
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-R,$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'
```

if test "$GCC" = yes; then
  ```bash
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$SCOAPSHOT:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $[wl]-Bexport:$export_symbols $[wl]-h,$SCOAPSHOT:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags'
  else
  ```bash
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G $[wl]-h,$SCOAPSHOT:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G $[wl]-Bexport:$export_symbols $[wl]-h,$SCOAPSHOT:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags'
  fi
  ;;
  uts4*)
    ```bash
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;
  *)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    esac
  fi
)"
AC_MSG_RESULT([$_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$[LT_AC_TAGVAR(ld_shlibs, $1)]" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$[LT_AC_TAGVAR(archive_cmds_need_lc, $1)]" in
  x

## Assume \(-lc\) should be added

\_LT\_AC\_TAGVAR(archive\_cmds\_need\_lc, $1)=yes

if test "enable\_shared" = yes && test "$GCC" = yes; then
case $\_LT\_AC\_TAGVAR(archive\_cmds, $1) in
  *~\~*)
    # FIXME: we may have to deal with multi-command sequences.
    ;;
  "$SCC "*)
    # Test whether the compiler implicitly links with \(-lc\) since on some
    # systems, \(-lgcc\) has to come before \(-lc\). If gcc already passes \(-lc\n    # to \(ld\), don't add \(-lc\) before \(-lgcc\).
    AC\_MSG\_CHECKING([whether \(-lc\) should be explicitly linked in])
    $rm conftest*
    echo "$lt\_simple\_compile\_test\_code" > conftest.$ac\_ext

    if AC\_TRY\_EVAL(ac\_compile) 2>conftest.err; then
      soname=conftest
      lib=conftest
      libobjs=conftest.$ac\_objext
      deplibs=
      wl=\_LT\_AC\_TAGVAR(lt\_prog\_compiler\_wl, $1)
      pic\_flag=\_LT\_AC\_TAGVAR(lt\_prog\_compiler\_pic, $1)
      compiler\_flags=-v
      linker\_flags=-v
      verstring=
      output\_objdir=.
      libname=conftest
      lt\_save\_allow\_undefined\_flag=\_LT\_AC\_TAGVAR(allow\_undefined\_flag, $1)
      \_LT\_AC\_TAGVAR(allow\_undefined\_flag, $1)=
      if AC\_TRY\_EVAL(\_LT\_AC\_TAGVAR(archive\_cmds, $1) 2>&1 | grep " -lc " 2>&1
      then
        \_LT\_AC\_TAGVAR(archive\_cmds\_need\_lc, $1)=no
      else
        \_LT\_AC\_TAGVAR(archive\_cmds\_need\_lc, $1)=yes
      fi
      \_LT\_AC\_TAGVAR(allow\_undefined\_flag, $1)=$lt\_save\_allow\_undefined\_flag
    else
      cat conftest.err 1>&5
      fi
    $rm conftest*
    AC\_MSG\_RESULT([\$\_LT\_AC\_TAGVAR(archive\_cmds\_need\_lc, $1)])
    ;
esac
fi
;:
esac
]
# AC\_LIBTOOL\_PROG\_LD\_SHLIBS
# _LT_AC_FILE_LTDLL_C
#
# Be careful that the start marker always follows a newline.
AC_DEFUN([_LT_AC_FILE_LTDLL_C], [
  /* ltdll.c starts here */
  #define WIN32_LEAN_AND_MEAN
  #include <windows.h>
  #undef WIN32_LEAN_AND_MEAN
  #include <stdio.h>

  #ifndef __CYGWIN__
  #  ifdef __CYGWIN32__
  #    define __CYGWIN__ __CYGWIN32__
  #  endif
  #endif

  #ifdef __cplusplus
  #  extern "C" {
  #endif
  #  BOOL APIENTRY DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);
  #  #ifdef __cplusplus
  #    }
  #  #endif

  #ifdef __CYGWIN__
  #  #include <cygwin/cygwin_dll.h>
  #  DECLARE_CYGWIN_DLL( DllMain );
  #endif
  #  HINSTANCE __hDllInstance_base;

  #  BOOL APIENTRY
  #    DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved)
  #    {
  #      __hDllInstance_base = hInst;
  #      return TRUE;
  #    }
  #  /* ltdll.c ends here */
])# _LT_AC_FILE_LTDLL_C

# _LT_AC_TAGVAR(VARNAME, [TAGNAME])
#
# old names
AC_DEFUN([AM_PROG_LIBTOOL], [AC_PROG_LIBTOOL])
AC_DEFUN([AM_ENABLE_SHARED], [AC_ENABLE_SHARED($@)])
AC_DEFUN([AM_ENABLE_STATIC], [AC_ENABLE_STATIC($@)])
AC_DEFUN([AM_DISABLE_SHARED], [AC_DISABLE_SHARED($@)])
AC_DEFUN([AM_DISABLE_STATIC], [AC_DISABLE_STATIC($@)])
AC_DEFUN([AM_PROG_LD], [AC_PROG_LD])
AC_DEFUN([AM_PROG_NM], [AC_PROG_NM])

# This is just to silence aclocal about the macro not being used
ifelse([AC_DISABLE_FAST_INSTALL])

AC_DEFUN([LT_AC_PROG_GCJ],
[AC_CHECK_TOOL(GCJ, gcj, no)]
test "x$[GCJFLAGS+set]" = xset || GCJFLAGS="-g -O2"
AC_SUBST(GCJFLAGS)
}

AC_DEFUN([LT_AC_PROG_RC],
[AC_CHECK_TOOL(RC, windres, no)]
)

# Cheap backport of AS_EXECUTABLE_P and required macros
# from Autoconf 2.59; we should not use $as_executable_p directly.

# _AS_TEST_PREPARE
# ---------------
#_AS_TEST_PREPARE
m4_ifndef([_AS_TEST_PREPARE],
m4_defun([_AS_TEST_PREPARE],
[if test -x / >/dev/null 2>&1; then
  as_executable_p='test -x'
else
  as_executable_p='test -f'
fi
)])# _AS_TEST_PREPARE

# AS_EXECUTABLE_P
# -------------
# Check whether a file is executable.
m4_ifndef([AS_EXECUTABLE_P],
m4_defun([AS_EXECUTABLE_P],
[AS_REQUIRE([_AS_TEST_PREPARE])]
Sas_executable_p $1[\[dnl

# NOTE: This macro has been submitted for inclusion into #
# GNU Autoconf as AC_PROG_SED. When it is available in #
# a released version of Autoconf we should remove this #
AC_DEFUN([LT_AC_PROG_SED],
[AC_MSG_CHECKING([for a sed that does not truncate output])]
AC_CACHE_VAL(lt_cv_path_SED,
[# Loop through the user's path and test for sed and gsed.
# Then use that list of sed's as ones to test for truncation.
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for lt_ac_prog in sed gsed; do
for ac_exec_ext in '' $ac_executable_extensions; do
if AS_EXECUTABLE_P("$as_dir/$lt_ac_prog$ac_exec_ext"); then
lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
fi
done
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
test ! -f $lt_ac_sed && continue
cat /dev/null > conftest.in
lt_ac_count=0
echo "$ECHO_N "0123456789" $ECHO_C" >conftest.in
# Check for GNU sed and select it if it is found.
if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
lt_cv_path_SED=$lt_ac_sed
break
fi
while true; do
cat conftest.in conftest.in >conftest.tmp
mv conftest.tmp conftest.in
cp conftest.in conftest.nl
echo >>conftest.nl
$lt_ac_sed -e 's/a$//' < conftest.nl >conftest.out || break
cmp -s conftest.out conftest.nl || break
# 10000 chars as input seems more than enough
test $lt_ac_count -gt 10 && break
lt_ac_count='expr $lt_ac_count + 1'
do
IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for lt_ac_prog in sed gsed; do
for ac_exec_ext in '' $ac_executable_extensions; do
if AS_EXECUTABLE_P("$as_dir/$lt_ac_prog$ac_exec_ext"); then
lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
fi
done
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
test ! -f $lt_ac_sed && continue
cat /dev/null > conftest.in
lt_ac_count=0
echo "$ECHO_N "0123456789" $ECHO_C" >conftest.in
# Check for GNU sed and select it if it is found.
if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
lt_cv_path_SED=$lt_ac_sed
break
fi
while true; do
cat conftest.in conftest.in >conftest.tmp
mv conftest.tmp conftest.in
cp conftest.in conftest.nl
echo >>conftest.nl
$lt_ac_sed -e 's/a$//' < conftest.nl >conftest.out || break
cmp -s conftest.out conftest.nl || break
# 10000 chars as input seems more than enough
test $lt_ac_count -gt 10 && break
lt_ac_count='expr $lt_ac_count + 1'
do
IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for lt_ac_prog in sed gsed; do
for ac_exec_ext in '' $ac_executable_extensions; do
if AS_EXECUTABLE_P("$as_dir/$lt_ac_prog$ac_exec_ext"); then
lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
fi
done
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
test ! -f $lt_ac_sed && continue
cat /dev/null > conftest.in
lt_ac_count=0
echo "$ECHO_N "0123456789" $ECHO_C" >conftest.in
# Check for GNU sed and select it if it is found.
if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
lt_cv_path_SED=$lt_ac_sed
break
fi
while true; do
cat conftest.in conftest.in >conftest.tmp
mv conftest.tmp conftest.in
cp conftest.in conftest.nl
echo >>conftest.nl
$lt_ac_sed -e 's/a$//' < conftest.nl >conftest.out || break
cmp -s conftest.out conftest.nl || break
# 10000 chars as input seems more than enough
test $lt_ac_count -gt 10 && break
lt_ac_count='expr $lt_ac_count + 1'
if test $lt_ac_count -gt $lt_ac_max; then
  lt_ac_max=$lt_ac_count
  lt_cv_path_SED=$lt_ac_sed
fi
done
done
)
SED=$lt_cv_path_SED
AC_SUBST([SED])
AC_MSG_RESULT([$SED])
)

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# AM_AUTOMAKE_VERSION(VERSION)
# --------------------------------
# Automake X.Y traces this macro to ensure aclocal.m4 has been
# generated from the m4 files accompanying Automake X.Y.
# (This private macro should not be called outside this file.)
AC_DEFUN([AM_AUTOMAKE_VERSION],
[am__api_version='1.10'
dnl Some users find AM_AUTOMAKE_VERSION and mistake it for a way to
dnl require some minimum version.  Point them to the right macro.
m4_if([[$1]], [1.10.1], [],
    [AC_FATAL([Do not call $0, use AM_INIT_AUTOMAKE([$1]).])])
])

# _AM_AUTOCONF_VERSION(VERSION)
# -----------------------------
# aclocal traces this macro to find the Autoconf version.
# This is a private macro too.  Using m4_define simplifies
# the logic in aclocal, which can simply ignore this definition.
m4_define([_AM_AUTOCONF_VERSION], [])

# AM_SET_CURRENT_AUTOMAKE_VERSION
# ---------------------------------
# Call AM_AUTOMAKE_VERSION and AM_AUTOMAKE_VERSION so they can be traced.
# This function is AC_REQUIREd by AC_INIT_AUTOMAKE.
AC_DEFUN([AM_SET_CURRENT_AUTOMAKE_VERSION],
[AM_AUTOMAKE_VERSION([1.10.1])dnl
m4_ifndef([AC_AUTOCONF_VERSION], [],
  [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION]), [AC_AUTOCONF_VERSION]])])

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# AM_AUX_DIR_EXPAND

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#
# For projects using AC_CONFIG_AUX_DIR([foo]), Autoconf sets
# $ac_aux_dir to '$srcdir/foo'. In other projects, it is set to
# '$srcdir', '$srcdir/../', or '$srcdir/../../'.
#
# Of course, Automake must honor this variable whenever it calls a
# tool from the auxiliary directory. The problem is that $srcdir (and
# therefore $ac_aux_dir as well) can be either absolute or relative,
# depending on how configure is run. This is pretty annoying, since
# it makes $ac_aux_dir quite unusable in subdirectories: in the top
# source directory, any form will work fine, but in subdirectories a
# relative path needs to be adjusted first.
#
# $ac_aux_dir/missing
#   fails when called from a subdirectory if $ac_aux_dir is relative
# $stop_srcdir/$ac_aux_dir/missing
#   fails if $ac_aux_dir is absolute,
#   fails when called from a subdirectory in a VPATH build with
#     a relative $ac_aux_dir
#
# The reason of the latter failure is that $stop_srcdir and $ac_aux_dir
# are both prefixed by $srcdir. In an in-source build this is usually
# harmless because $srcdir is '.', but things will broke when you
# start a VPATH build or use an absolute $srcdir.
#
# So we could use something similar to $stop_srcdir/$ac_aux_dir/missing,
# if we strip the leading $srcdir from $ac_aux_dir. That would be:
# $am_aux_dir="$(top_srcdir)/"expr "$ac_aux_dir" : "$srcdir/\*([^/]*).*/""
# and then we would define $MISSING as
# $MISSING="$SHELL\$ $am_aux_dir/missing"
# This will work as long as MISSING is not called from configure, because
# unfortunately $(top_srcdir) has no meaning in configure.
# However there are other variables, like CC, which are often used in
# configure, and could therefore not use this "fixed" $ac_aux_dir.
#
# Another solution, used here, is to always expand $ac_aux_dir to an
# absolute PATH. The drawback is that using absolute paths prevent a
# configured tree to be moved without reconfiguration.

AC_DEFUN([AM_AUX_DIR_EXPAND],
[dnl Rely on autoconf to set up CPATH properly.

AC_PREREQ(2.50)dnl
# expand $ac_aux_dir to an absolute path
am_aux_dir='cd $ac_aux_dir && pwd'
}

# AM_CONDITIONAL

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# serial 8

# AM_CONDITIONAL(NAME, SHELL-CONDITION)
# -------------------------------------
# Define a conditional.
AC_DEFUN([AM_CONDITIONAL],
[AC_PREREQ(2.52)dnl
ifelse([$1], [TRUE], [AC_FATAL([$0: invalid condition: $1])],
[$1], [FALSE], [AC_FATAL([$0: invalid condition: $1])])dnl
AC_SUBST([$1_TRUE])dnl
AC_SUBST([$1_FALSE])dnl
_AM_SUBST_NOTMAKE([$1_TRUE])dnl
_AM_SUBST_NOTMAKE([$1_FALSE])dnl
if $2; then
$1_TRUE=
$1_FALSE='#
else
$1_TRUE='#
$1_FALSE=
fi
AC_CONFIG_COMMANDS_PRE(
[if test -z "${$1_TRUE}" && test -z "${$1_FALSE}"; then
AC_MSG_ERROR([[conditional "$1" was never defined.
Usually this means the macro was only invoked conditionally.]])
fi)])

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# serial 9
# There are a few dirty hacks below to avoid letting 'AC_PROG_CC' be
# written in clear, in which case automake, when reading aclocal.m4,
# will think it sees a *use*, and therefore will trigger all it's
# C support machinery. Also note that it means that autoscan, seeing
# CC etc. in the Makefile, will ask for an AC_PROG_CC use...

# _AM_DEPENDENCIES(NAME)
# ----------------------
# See how the compiler implements dependency checking.
# NAME is "CC", "CXX", "GCJ", or "OBJC".
# We try a few techniques and use that to set a single cache variable.
#
# We don't AC_REQUIRE the corresponding AC_PROG_CC since the latter was
# modified to invoke _AM_DEPENDENCIES(CC); we would have a circular
# dependency, and given that the user is not expected to run this macro,
# just rely on AC_PROG_CC.
AC_DEFUN([_AM_DEPENDENCIES],
         \[AC_REQUIRE([AM_SET_DEPDIR])dnl
         AC_REQUIRE([AM_OUTPUT_DEPENDENCY_COMMANDS])dnl
         AC_REQUIRE([AM_MAKE_INCLUDE])dnl
         AC_REQUIRE([AM_DEP_TRACK])dnl
         ifelse([$1], CC,  [depcc="SCC" am_compiler_list=],
                  [$1], CXX,  [depcc="SCXX" am_compiler_list=],
                  [$1], OBJC, [depcc="SOBJC" am_compiler_list="gcc3 gcc"],
                  [$1], UPC,  [depcc="SUPC" am_compiler_list=],
                  [$1], GCJ,  [depcc="SGCJ" am_compiler_list="gcc3 gcc"],
                              [depcc="$1" am_compiler_list=])

AC_CACHE_CHECK([dependency style of $depcc],
                       \[am_cv_$1_dependencies_compiler_type],\]
         if test -z "$AMDEP_TRUE" && test -f "$am_depcomp"; then
          # We make a subdir and do the tests there. Otherwise we can end up
          # making bogus files that we don't know about and never remove. For
          # instance it was reported that on HP-UX the gcc test will end up
          # making a dummy file named 'D' -- because '-MD' means 'put the output
          # in D'.
          mkdir conftest.dir
          # Copy depcomp to subdir because otherwise we won't find it if we're
          # using a relative directory.
          cp "$am_depcomp" conftest.dir
          cd conftest.dir
          # We will build objects and dependencies in a subdirectory because
          # it helps to detect inapplicable dependency modes. For instance
          # both Tru64's cc and ICC support -MD to output dependencies as a
          # side effect of compilation, but ICC will put the dependencies in
# the current directory while Tru64 will put them in the object
# directory.
mkdir sub
am_cv_$1_dependencies_compiler_type=none
if test "$am_compiler_list" = ""; then
am_compiler_list='sed -n ['s/^#*\([a-zA-Z0-9]*\))$/\1/p'] < ./depcomp'
fi
for depmode in $am_compiler_list; do
# Setup a source with many dependencies, because some compilers
# like to wrap large dependency lists on column 80 (with \), and
# we should not choose a depcomp mode which is confused by this.
#
# We need to recreate these files for each test, as the compiler may
# overwrite some of them when testing with obscure command lines.
# This happens at least with the AIX C compiler.
: > sub/conftest.c
for i in 1 2 3 4 5 6; do
echo '#include "conftst'$i'.h"' >> sub/conftest.c
# Using ': > sub/conftst$i.h' creates only sub/conftst1.h with
# Solaris 8's {/usr,}/bin/sh.
touch sub/conftst$i.h
done
echo "${am__include} ${am__quote}sub/conftest.Po${am__quote}" > confmf
case $depmode in
nosideeffect)
# after this tag, mechanisms are not by side-effect, so they'll
# only be used when explicitly requested
if test "x$enable_dependency_tracking" = xyes; then
continue
else
break
fi
;;
none) break ;;
esac
# We check with '-c' and '-o' for the sake of the "dashmstdout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle '-M -o', and we need to detect this.
if depmode=$depmode \
source=sub/conftest.c object=sub/conftest.${OBJEXT-o} \
depfile=sub/conftest.Po tmpdepfile=sub/conftest.TPo \
$SHELL ./depcomp $depcc -c -o sub/conftest.${OBJEXT-o} sub/conftest.c \
>/dev/null 2>conftest.err &&
grep sub/conftst1.h sub/conftest.Po > /dev/null 2>&1 &&
grep sub/conftst6.h sub/conftest.Po > /dev/null 2>&1 &&
grep sub/conftest.${OBJEXT-o} sub/conftest.Po > /dev/null 2>&1 &&

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${MAKE-make} -s -f confmf > /dev/null 2>&1; then
# icc doesn't choke on unknown options, it will just issue warnings
# or remarks (even with -Werror). So we grep stderr for any message
# that says an option was ignored or not supported.
# When given -MP, icc 7.0 and 7.1 complain thusly:
# icc: Command line warning: ignoring option '-M'; no argument required
# The diagnosis changed in icc 8.0:
# icc: Command line remark: option '-MP' not supported
if (grep 'ignoring option' conftest.err ||
grep 'not supported' conftest.err) >/dev/null 2>&1; then :: else
   am_cv_$1_dependencies_compiler_type=$depmode
   break
fi
fi
done

cd ..
rm -rf conftest.dir
else
   am_cv_$1_dependencies_compiler_type=none
fi
)
) AC_SUBST([$1DEPMODE], [depmode=am_cv_$1_dependencies_compiler_type])
AM_CONDITIONAL([am__fastdep$1], [
test "x$enable_dependency_tracking" != xno 
&& test "$am_cv_$1_dependencies_compiler_type" = gcc3])
)}

# AM_SET_DEPDIR
# ---------------
# Choose a directory name for dependency files.
# This macro is AC_REQUIREd in _AM_DEPENDENCIES
AC_DEFUN([AM_SET_DEPDIR],
[AC_REQUIRE([AM_SET_LEADING_DOT])dnl
AC_SUBST([DEPDIR], ["${am__leading_dot}deps"]dnl
)]
)

# AM_DEP_TRACK
# -------------
AC_DEFUN([AM_DEP_TRACK],
[AC_ARG_ENABLE(dependency-tracking,
[ --disable-dependency-tracking speeds up one-time build
 --enable-dependency-tracking do not reject slow dependency extractors])
if test "x$enable_dependency_tracking" != xno; then
   am_depcmp="$ac_aux_dir/depcomp"
   AMDEPBACKSLASH='\"
AM_CONDITIONAL([AMDEP], [test "$enable_dependency_tracking" != xno])
AC_SUBST([AMDEPBACKSLASH])

# Generate code to set up dependency tracking.          -*- Autoconf -*-

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#serial 3

# _AM_OUTPUT_DEPENDENCY_COMMANDS
# ------------------------------
AC_DEFUN([_AM_OUTPUT_DEPENDENCY_COMMANDS],
[for mf in $CONFIG_FILES; do
  # Strip MF so we end up with the name of the file.
  mf='echo "$mf" | sed -e 's/://g'"
  # Check whether this is an Automake generated Makefile or not.
  # We used to match only the files named 'Makefile.in', but
  # some people rename them; so instead we look at the file content.
  # Grep'ing the first line is not enough: some people post-process
  # each Makefile.in and add a new line on top of each file to say so.
  # Grep'ing the whole file is not good either: AIX grep has a line
  # limit of 2048, but all sed's we know have understand at least 4000.
  if sed -n 's,^#.*generated by automake.*,X,p' "$mf" | grep X >/dev/null 2>&1; then
    dirpart='AS_DIRNAME("$mf")'
  else
    continue
  fi
  # Extract the definition of DEPDIR, am__include, and am__quote
  # from the Makefile without running 'make'.
  DEPDIR=`sed -n 's/^DEPDIR = //p' $mf`
  test -z "DEPDIR" && continue
  am__include=`sed -n 's/^am__include = //p' $mf`
  test -z "am__include" && continue
  am__quote=`sed -n 's/^am__quote = //p' $mf`
  test -z "am__quote" && continue
  # When using ansi2knr, U may be empty or an underscore; expand it
  U=`sed -n 's/^U = //p' "$mf"`
  # Find all dependency output files, they are included files with
  # $(DEPDIR) in their names. We invoke sed twice because it is the
  # simplest approach to changing $(DEPDIR) to its actual value in the
  # expansion.

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for file in 'sed -n "
  s/^$am__include $am__quote\(.*\$DEPDIR\).*$am__quote\"$\1/p' <"$mf" | \
  sed -e 's/\$(DEPDIR)/'$DEPDIR'/g' -e 's/\$/"/g'; do
  # Make sure the directory exists.
  test -f "$dirpart/$file" && continue
  fdir='AS_DIRNAME(["$file")']
  AS_MKDIR_P([$dirpart/$fdir])
  # echo "creating $dirpart/$file"
  echo '# dummy' > "$dirpart/$file"
done
done
}

# AM_OUTPUT_DEPENDENCY_COMMANDS

# AM_OUTPUT_DEPENDENCY_COMMANDS
# -----------------------------
# This macro should only be invoked once -- use via AC_REQUIRE.
#
# This code is only required when automatic dependency tracking
# is enabled. FIXME. This creates each '.P' file that we will
# need in order to bootstrap the dependency handling code.
AC_DEFUN([AM_OUTPUT_DEPENDENCY_COMMANDS],
[AC_CONFIG_COMMANDS([depfiles],
  [test x "$SAMDEP_TRUE" != x ""] || _AM_OUTPUT_DEPENDENCY_COMMANDS],
  [AMDEP_TRUE="$SAMDEP_TRUE" ac_aux_dir="$ac_aux_dir"])]
)

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#
# serial 8

# AM_CONFIG_HEADER is obsolete. It has been replaced by AC_CONFIG_HEADERS.
AU_DEFUN([AM_CONFIG_HEADER], [AC_CONFIG_HEADERS($@)])

# Do all the work for Automake.                -*- Autoconf -*-
#
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# serial 13

# This macro actually does too much. Some checks are only needed if
# your package does certain things. But this isn't really a big deal.

# AM_INIT_AUTOMAKE(PACKAGE, VERSION, [NO-DEFINE])
# AM_INIT_AUTOMAKE([OPTIONS])
# -----------------------------------------------
# The call with PACKAGE and VERSION arguments is the old style
# call (pre autoconf-2.50), which is being phased out. PACKAGE
# and VERSION should now be passed to AC_INIT and removed from
# the call to AM_INIT_AUTOMAKE.
# We support both call styles for the transition. After
# the next Automake release, Autoconf can make the AC_INIT
# arguments mandatory, and then we can depend on a new Autoconf
# release and drop the old call support.
AC_DEFUN([AM_INIT_AUTOMAKE],
[AC_PREREQ([2.60])]
dnl
Autoconf wants to disallow AM_ names. We explicitly allow
the ones we care about.
m4_pattern_allow(["AM_[A-Z]+FLAGS$])
dnl
AC_REQUIRE([AM_SET_CURRENT_AUTOMAKE_VERSION])
dnl
AC_REQUIRE([AC_PROG_INSTALL])
dnl
if test "cd $srcdir && pwd" != "pwd"; then
# Use -I$(srcdir) only when $(srcdir) != ., so that make's output
# is not polluted with repeated "-I."
AC_SUBST([am__isrc], ["-I$(srcdir)"])_AM_SUBST_NOTMAKE([am__isrc])
dnl
# test to see if srcdir already configured
if test -f $srcdir/config.status; then
    AC_MSG_ERROR([source directory already configured; run "make distclean" there first])
fi
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
    if (cygpath --version) >/dev/null 2>/dev/null; then
        CYGPATH_W='cygpath -w'
    else
        CYGPATH_W=echo
    fi
fi

AC_SUBST([CYGPATH_W])

# Define the identity of the package.
dnl Distinguish between old-style and new-style calls.
m4_ifval([$2],
[m4_ifval([$3], [ _AM_SET_OPTION([no-define])])]
dnl
AC_SUBST([PACKAGE], [$1])

AC_SUBST([VERSION], [S2]),
[_AM_SET_OPTIONS([S1])],
dnl Diagnose old-style AC_INIT with new-style AM_AUTOMAKE_INIT.
m4_if(m4_ifdef([AC_PACKAGE_NAME], 1) m4_ifdef([AC_PACKAGE_VERSION], 1), 11,,
    [m4_fatal([AC_INIT should be called with package and version arguments])],
AC_SUBST([PACKAGE], ['AC_PACKAGE_TARNAME'])
AC_SUBST([VERSION], ['AC_PACKAGE_VERSION'])]

_AM_IF_OPTION([no-define],,,
[AC_DEFINE_UNQUOTED(PACKAGE, "PACKAGE", [Name of package])
AC_DEFINE_UNQUOTED(VERSION, "VERSION", [Version number of package])]])

# Some tools Automake needs.
AC_REQUIRE([AM_SANITY_CHECK])
AC_REQUIRE([AC_ARG_PROGRAM])
AM_MISSING_PROG(ACLOCAL, aclocal-${am__api_version})
AM_MISSING_PROG(AUTOCONF, autoconf)
AM_MISSING_PROG(AUTOMAKE, automake-${am__api_version})
AM_MISSING_PROG(AUTOHEADER, autoheader)
AM_MISSING_PROG(MAKEINFO, makeinfo)
AM_PROG_INSTALL_SH
AM_PROG_INSTALL_STRIP
AC_REQUIRE([AM_PROG_MKDIR_P])
# We need awk for the "check" target. The system "awk" is bad on
# some platforms.
AC_REQUIRE([AC_PROG_AWK])
AC_REQUIRE([AC_PROG_MAKE_SET])
AC_REQUIRE([AM_SET_LEADING_DOT])

_AM_IF_OPTION([tar-ustar], [_AM_PROG_TAR([ustar])],
    [_AM_IF_OPTION([tar-pax], [_AM_PROG_TAR([pax])],
        [_AM_PROG_TAR([v7])])])

_AM_IF_OPTION([no-dependencies],,,
[AC_PROVIDE_IFELSE([AC_PROG_CC],
    [_AM_DEPENDENCIES(CC)],
    [define([AC_PROG_CC],
        defn([AC_PROG_CC])[_AM_DEPENDENCIES(CC)])],
AC_PROVIDE_IFELSE([AC_PROG_CXX],
    [_AM_DEPENDENCIES(CXX)],
    [define([AC_PROG_CXX],
        defn([AC_PROG_CXX])[_AM_DEPENDENCIES(CXX)])],
AC_PROVIDE_IFELSE([AC_PROG_OBJC],
    [_AM_DEPENDENCIES_OBJC],
    [define([AC_PROG_OBJC],
        defn([AC_PROG_OBJC])[_AM_DEPENDENCIES_OBJC])])
})
})
# When config.status generates a header, we must update the stamp-h file.
# This file resides in the same directory as the config header
# that is generated. The stamp files are numbered to have different names.

# Autoconf calls _AC_AM_CONFIG_HEADER_HOOK (when defined) in the
# loop where config.status creates the headers, so we can generate
# our stamp files there.

AC_DEFUN([_AC_AM_CONFIG_HEADER_HOOK],
  [ # Compute $1's index in $config_headers.
    _am_arg=$1
    _am_stamp_count=1
    for _am_header in $config_headers :: do
      case $_am_header in
        _am_arg | $_am_arg:* )
          break ::
        * )
          _am_stamp_count=`expr $_am_stamp_count + 1` ::
      esac
    done
    echo "timestamp for $_am_arg" >`AS_DIRNAME(["$_am_arg"])/stamp-h[$_am_stamp_count]

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# AM_PROG_INSTALL_SH
# ------------------
# Define $install_sh.

AC_DEFUN([AM_PROG_INSTALL_SH],
  [AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
    install_sh=${install_sh-"$(SHELL) $am_aux_dir/install-sh"}
    AC_SUBST(install_sh)
]

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# serial 2

# Check whether the underlying file-system supports filenames
# with a leading dot. For instance MS-DOS doesn't.

AC_DEFUN([AM_SET_LEADING_DOT],
  [rm -rf .tst 2>/dev/null
    mkdir .tst 2>/dev/null
]

# Open Source Used In Tetration 3.5.1 7402
if test -d .tst; then
  am__leading_dot=.
else
  am__leading_dot=_
fi
rm dir .tst 2>/dev/null
AC_SUBST([am__leading_dot])]

# Check to see how 'make' treats includes.  -*- Autoconf -*-

#
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# serial 3

# AM_MAKE_INCLUDE()
# ---------------
# Check to see how make treats includes.
AC_DEFUN([AM_MAKE_INCLUDE],
  [am_make=${MAKE-make}
  cat > confinc << 'END'
    am__doit:
      @echo done
    .PHONY: am__doit
  END
  # If we don't find an include directive, just comment out the code.
  AC_MSG_CHECKING([for style of include used by $am_make])
  am__include="#"
  am__quote=
  _am_result=none
  # First try GNU make style include.
  echo "include confinc" > confmf
  # We grep out 'Entering directory' and 'Leaving directory'
  # messages which can occur if 'w' ends up in MAKEFLAGS.
  # In particular we don't look at '^make:' because GNU make might
  # be invoked under some other name (usually "gmake"), in which
  # case it prints its new name instead of 'make'.
  if test "'$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory''' = "done""; then
    am__include=include
    am__quote=
    _am_result=GNU
  fi
  # Now try BSD make style include.
  if test "'$am__include" = "; then
    echo '.include "confinc"' > confmf
if test ""$am_make -s -f confmf 2> /dev/null"" = "done"; then
    am__include=.include
    am__quote=""
    _am_result=BSD
fi

AC_SUBST([am__include])
AC_SUBST([am__quote])
AC_MSG_RESULT([$_am_result])
rm -f confinc confmf
)

# Fake the existence of programs that GNU maintainers use.  -*- Autoconf -*-

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#
# serial 5

# AM_MISSING_PROG(NAME, PROGRAM)
# -------------------------------
AC_DEFUN([AM_MISSING_PROG],
[AC_REQUIRE([AM_MISSING_HAS_RUN])
$1=${$1-"${am_missing_run}$2"}
AC_SUBST($1)])

# AM_MISSING_HAS_RUN
# ------------------
# Define MISSING if not defined so far and test if it supports --run.
# If it does, set am_missing_run to use it, otherwise, to nothing.
AC_DEFUN([AM_MISSING_HAS_RUN],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
AC_REQUIRE_AUX_FILE([missing])dnl
test x"${MISSING+set}" = xset || MISSING="${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
    am_missing_run="$MISSING --run "
else
    am_missing_run=
AC_MSG_WARN([missing' script is too old or missing])
fi
]
#
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# AM_PROG_MKDIR_P
# -------------------
# Check for 'mkdir -p'.
AC_DEFUN([AM_PROG_MKDIR_P],
[AC_PREREQ([2.60])dnl
AC_REQUIRE([AC_PROG_MKDIR_P])dnl
dnl Automake 1.8 to 1.9.6 used to define mkdir_p. We now use MKDIR_P,
dnl while keeping a definition of mkdir_p for backward compatibility.
dnl @MKDIR_P@ is magic: AC_OUTPUT adjusts its value for each Makefile.
dnl However we cannot define mkdir_p as $(MKDIR_P) for the sake of
dnl Makefile.ins that do not define MKDIR_P, so we do our own
dnl adjustment using top_builddir (which is defined more often than
dnl MKDIR_P).
AC_SUBST([mkdir_p], ["$MKDIR_P"]dnl
case $mkdir_p in
  [[\$/]* | ?:[[\/]]*) ;;
  */") mkdir_p="$(top_builddir)/$mkdir_p" ;;
esac)
])

# Helper functions for option handling. -^ Autoconf -^.

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# serial 3

# _AM_MANGLE_OPTION(NAME)
# --------------------------
AC_DEFUN([_AM_MANGLE_OPTION],
[[_AM_OPTION_m4_bpatsubst($1, [[^a-zA-Z0-9_].]; [\_])]])

# _AM_SET_OPTION(NAME)
# ------------------------
# Set option NAME. Presently that only means defining a flag for this option.
AC_DEFUN([_AM_SET_OPTION],
m4_define(_AM_MANGLE_OPTION([$1]), 1))

# _AM_SET_OPTIONS(OPTIONS)
# OPTIONS is a space-separated list of Automake options.
AC_DEFUN([_AM_SET_OPTIONS],
[AC_FOREACH([_AM_Option], [$1], [_AM_SET_OPTION(_AM_Option)]))

# _AM_IF_OPTION(OPTION, IF-SET, [IF-NOT-SET])
# ---------------------------------------------
# Execute IF-SET if OPTION is set, IF-NOT-SET otherwise.
AC_DEFUN([_AM_IF_OPTION],
[m4_ifset(_AM_MANGLE_OPTION([$1]), [$2], [$3]))

# Check to make sure that the build environment is sane.  -*- Autoconf -*-

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#
# serial 4

# AM_SANITY_CHECK
# ---------------
AC_DEFUN([AM_SANITY_CHECK],
[AC_MSG_CHECKING([whether build environment is sane])]
# Just in case
sleep 1
echo timestamp > conftest.file
# Do 'set' in a subshell so we don't clobber the current shell's
# arguments.  Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (set X 'ls -Lt $srcdir/configure conftest.file 2> /dev/null'
if test "$[*]" = "$X"; then
 # -L didn't work.
 set X 'ls -t $srcdir/configure conftest.file'
fi
rm -f conftest.file
if test "$[*]" != "$X $srcdir/configure conftest.file" &&
 & & test "$[*]" != "$X conftest.file $srcdir/configure"; then

 # If neither matched, then we have a broken ls.  This can happen
 # if, for instance, CONFIG_SHELL is bash and it inherits a
 # broken ls alias from the environment.  This has actually
 # happened.  Such a system could not be considered "sane".
AC_MSG_ERROR([ls -t appears to fail. Make sure there is not a broken
alias in your environment])
fi

test "$[2]" = conftest.file
)
then
# Ok.
:
else
    AC_MSG_ERROR([newly created file is older than distributed files!
Check your system clock])
    fi
AC_MSG_RESULT(yes))

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# AM_PROG_INSTALL_STRIP
# ---------------------
# One issue with vendor 'install' (even GNU) is that you can't
# specify the program used to strip binaries. This is especially
# annoying in cross-compiling environments, where the build's strip
# is unlikely to handle the host's binaries.
# Fortunately install-sh will honor a STRIPPROG variable, so we
# always use install-sh in 'make install-strip', and initialize
# STRIPPROG with the value of the STRIP variable (set by the user).
AC_DEFUN([AM_PROG_INSTALL_STRIP],
   [AC_REQUIRE([AM_PROG_INSTALL_SH])dnl
# Installed binaries are usually stripped using 'strip' when the user
# run 'make install-strip'. However 'strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the 'STRIP' environment variable to overrule this program.
dnl Don't test for $cross_compiling = yes, because it might be 'maybe'.
if test "$cross_compiling" != no; then
   AC_CHECK_TOOL([STRIP], [strip], :)
fi
INSTALL_STRIP_PROGRAM="$(install_sh) -c -s"
AC_SUBST([INSTALL_STRIP_PROGRAM])])

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# _AM_SUBST_NOTMAKE(VARIABLE)
# ---------------------------
# Prevent Automake from outputting VARIABLE = @VARIABLE@ in Makefile.in.
# This macro is traced by Automake.
AC_DEFUN([_AM_SUBST_NOTMAKE])

# Check how to create a tarball.       -*- Autoconf -*-
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# serial 2

# _AM_PROG_TAR FORMAT)
# ---------------------
# Check how to create a tarball in format FORMAT.
# FORMAT should be one of 'v7', 'ustar', or 'pax'.
#
# Substitute a variable $(_am__tar) that is a command
# writing to stdout a FORMAT-tarball containing the directory
# $tardir.
# tardir=directory && $(_am__tar) > result.tar
#
# Substitute a variable $(_am__untar) that extract such
# a tarball read from stdin.
# $(_am__untar) < result.tar
AC_DEFUN([_AM_PROG_TAR],
[
# Always define AMTAR for backward compatibility.
AM_MISSING_PROG([AMTAR], [tar])

m4_if([$1], [v7],
[am__tar='${AMTAR} chof - "$$tardir"'; am__untar='${AMTAR} xf -'],
[m4_case([$1], [ustar],, [pax],,
[am__tar='${AMTAR} chof - "$$tardir"'; am__untar='${AMTAR} xf -'],
[am__tar='${AMTAR} chof - "$$tardir"'; am__untar='${AMTAR} xf -']
))
AC_MSG_CHECKING([how to create a $1 tar archive])
# Loop over all known methods to create a tar archive until one works.
_am_tools='gnutar m4_if([$1], [ustar], [plaintar]) pax cpio none'
_am_tools=${am_cv_prog_tar_$1-$_am_tools}
for _am_tool in $_am_tools
do
  case $_am_tool in
    gnutar)
      case $(_am_tool in
        gnutar)
  for _am_tar in tar gnutar gtar;
do
  AM_RUN_LOG($am_tar --version) && break
done

am__tar='$am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf --"$tardir"

am__tar='$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf "$tardir"

am__untar='$am_tar -xf -'
   
 plaintar)
  # Must skip GNU tar: if it does not support --format= it doesn't create
  # ustar tarball either.
  (tar --version) >/dev/null 2>&1 && continue
  am__tar='tar chf - "$tardir"
  am__tar_='tar chf - "$tardir"
  am__untar='tar xf -'
  
 pax)
  am__tar='pax -L -x $1 -w "$tardir"
  am__tar_='pax -L -x $1 -w "$tardir"
  am__untar='pax -r'
  
 cpio)
  am__tar='find "$tardir" -print | cpio -o -H $1 -L'
  am__tar_='find "$tardir" -print | cpio -o -H $1 -L'
  am__untar='cpio -i -H $1 -d'
  
 none)
  am__tar=false
  am__tar_=false
  am__untar=false
  
esac

# If the value was cached, stop now. We just wanted to have am__tar
# and am__untar set.
test -n "${am_cv_prog_tar_$1}" && break

# tar/untar a dummy directory, and stop if the command works
rm -rf conftest.dir
mkdir conftest.dir
echo GrepMe > conftest.dir/file
AM_RUN_LOG([tardir=conftest.dir && eval $am__tar >conftest.tar])
rm -rf conftest.dir

if test -s conftest.tar; then
  AM_RUN_LOG([$am__untar <conftest.tar])
  grep GrepMe conftest.dir/file >/dev/null 2>&1 && break
fi
done
rm -rf conftest.dir
1.693 cg-manager 0.24-0ubuntu7.5

1.693.1 Available under license:

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

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

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!
HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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1.704 phantomjs 2.1.1

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

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

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a
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RFC1833:  Binding Protocols for ONC RPC Version 2  
RFC2078:  Generic Security Service Application Program Interface, Version 2  
RFC2203:  RPCSEC_GSS Protocol Specification  
RFC2695:  Authentication Mechanisms for ONC RPC

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*/

This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>:<line>:<column>:

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"
wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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

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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*  
* REQUIRED.
*/

pythonTypeInitMap ::= [
  "bool"."False",
]
"int":"0",
"float":"0.0",
"str":"",
default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>
>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
  # Enter a parse tree produced by <file.parserName>#{lname}.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

  # Exit a parse tree produced by <file.parserName>#{lname}.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

}; separator="\n">

>>

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |}
    
    # Visit a parse tree produced by <file.parserName>#<lname>.
    def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
        return self.visitChildren(ctx)
    }

    del <file.parserName>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
    # Generated from <grammarFileName> by ANTLR <ANTLRVersion>
    >>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
    <Parser_(ctor="parser_ctor", ...)> 
    
    Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
    <if(superClass)>
    from .<superClass> import <superClass>
    
    <endif>
    
    class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

        grammarFileName = "<parser.grammarFileName>"

        atn = ATNDeserializer().deserialize(serializedATN())

        decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

        sharedContextCache = PredictionContextCache()

        literalNames = [ <parser.literalNames:{t | <t>}; null="\"\"INVALID>\"", separator=",", wrap, anchor> ]
symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\"INVALID\"\", separator=" ", wrap, anchor> ]

<parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=" ", wrap, anchor> ]

EOF = <TokenLabelType()>.EOF
<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor)()>

<namedActions.members>

<funcs; separator="\n">

<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
      self._predicates = dict()
  <parser.sempredFuncs.values:{f |
    self._predicates[<f.ruleIndex>] = self.<f.name>_sempred ; separator="\n   ">
  pred = self._predicates.get(ruleIndex, None)
  if pred is None:
    raise Exception("No predicate with index:" + str(ruleIndex))
  else:
    return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
  def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
      actions = dict()
  <recog.actionFuncs.values:{f |
    actions[<f.ruleIndex>] = self.<f.name>_action ; separator="\n   ">
  self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
    action(localctx, actionIndex)
else:
raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
  if self._predicates is None:
    preds = dict()
<recog.sempredFuncs.values:{f}
    preds[f.ruleIndex] = self.<f.name>_sempred; separator="\n">
    self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
      return pred(localctx, predIndex)
    else:
      raise Exception("No registered predicate for:" + str(ruleIndex))
<sempredFuncs.values; separator="\n">
<endif>
>>
>>

def __init__(self, input:TokenStream):
  super().__init__(input)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
  <actions:{index}
  <if(first(actions))>
    if actionIndex == <index>:
      <actions.(index)>
  <elseif(rest(actions))>
    elif actionIndex == <index>:
      <actions.(index)>
  <endif> }; separator="\n">
>>
/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
   <actions:{index|
   <if(first(actions))>
      if predIndex == <index>:
         return <actions.(index)>
   <elseif(rest(actions))>
      elif predIndex == <index>:
         return <actions.(index)>
   <endif> }; separator="\n">
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions) ::= <<
def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):
   localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
   self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
   <namedActions.init>
   <locals; separator="\n">
   try:
      <code>
      <postamble; separator="\n">
      <namedActions.after>
      <exceptions; separator="\n">
   <else>
   except RecognitionException as re:
       localctx.exception = re
       self._errHandler.reportError(self, re)
       self._errHandler.recover(self, re)
   <endif>
   finally:
      <finallyAction>
       self.exitRule()
       return localctx
>>
LeftRecursiveRuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble) ::= <<

<ruleCtx>
<altLabelCtxs:{1 | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args), <args:{a | , <a>}>><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
    <postamble; separator="\n">
    <namedActions.after>
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel; format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
(CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...))
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label) = _input.LT(1)><endif>

<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  ]; separator="\n"}
else:
  <error>

>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
    pass}; separator="\n"}
else:
  <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<_errHandler.sync(this);!>
preamble; separator="\n"
if <expr>:
  <alts; separator="\n"

<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
preamble; separator="\n"
while <loopExpr>:
  <alts; separator="\n"
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
preamble; separator="\n"
while True:
    <alts; separator="n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break
    >>

    // LL(*) stuff

    AltBlock(choice, preamble, alts, error) ::= <<
    self.state = <choice.stateNumber>
    <!_errHandler.sync(this);!>
    <if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
    <preamble; separator="n">
    la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
    <alts:{alt |
    if la_ == <i>:
      <alt>
      pass
    }; separator="nel">
    >>

    OptionalBlock(choice, alts, error) ::= <<
    self.state = <choice.stateNumber>
    <!_errHandler.sync(this);!>
    la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
    <alts:{alt |
    if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
      <alt>
    }; separator="nel">
    >>

    StarBlock(choice, alts, sync, iteration) ::= <<
    self.state = <choice.stateNumber>
    self._errHandler.sync(self)
    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
    while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
        if _alt==1<if(!choice.ast.greedy)>+1<endif>:
            <iteration>
            <alts> <! should only be one !>
            self.state = <choice.loopBackStateNumber>
            self._errHandler.sync(self)
            _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  alts:{alt|
  if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  } else:
  <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>}) and ((1 \< <offsetShiftVar(s.varName, bits.shift)>)) & (<bits.ttypes:{ttype | (1 \< <offsetShiftType(ttype, bits.shift)>})}; separator=" | ") != 0
%>

isZero ::= [
  "0":true,
  default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
  <if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>
offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%
>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype}]; separator=" or ">
%
>
cases(ttypes) ::= <<
if token in [ <types:{t | <parser.name>.<t}>}; separator=", "]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)<r.labels:{l | <labelref(l)> = }
]>endf><endf>self.<r.name>({<if(r.ast.options.p)<r.ast.options.p><if(argExprsChunks),<endif><endif><argExprsChunks>
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)<m.labels:{l | <labelref(l)> = }
>>><endf>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)<m.labels:{l | <labelref(l)> = }><if(invert)>if <m.varName> <= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)<m.labels:{l | <labelref(l)> = }><endf><endf>self._errHandler.recoverInline(self)
else:
    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)<w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"
ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
    self.state = <p.stateNumber>
    if not <chunks>:
        from antlr4.error.Errors import FailedPredicateException
        raise FailedPredicateException(self, <p.predicate><if(failChunks), <failChunks><elseif(p.msg)>, <p.msg><endif>)
    >>

ExceptionClause(e, catchArg, catchAction) ::= <<
    catch (<catchArg>) {
        <catchAction>
    }
    >>
    
// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg) ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/* How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenTokenType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else self._input.getText((<ctx(r)>.<r.label>.start, <ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(labelref(a.label))"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType() type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= "
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
"

// should never be called
ContextTokenListGetterDecl(t) ::= "
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
"

ContextTokenListIndexedGetterDecl(t) ::= "
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
"

RuleContextGetterDecl(r) ::= "
def <r.name>(self):
"
return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
  def <r.name>__list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
  def <r.name>(self, i:int=None):
    if i is None:
      return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
      return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)
>>

LexerRuleContext() ::= "RuleContext"
/** The rule context name is the rule followed by a suffix; e.g.,
* \tr becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,dispatchMethods,interfaces,extensionMembers,
  superClass={ParserRuleContext}) ::= <<
class <struct.name>(<superClass>):
  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
  <a.name><if(a.type)>:<a.type><endif>=None}>):
    super().__init__(parent, invokingState)
    self.parser = parser
    <attrs:{a | <a>}; separator="\n">isy
    <struct.ctorAttrs:{a | self.<a.name> = <a.name}>; separator="\n">isy

    <getters:{g | <g>}; separator="\n"
def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
def copyFrom(self, ctx:ParserRuleContext):
    super().copyFrom(ctx)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name}>; separator="\n">
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name; format="cap">Context
    super().__init__(parser)
    <attrs:{a | <a>}; separator="\n">
    self.copyFrom(ctx)
<getters:{g | <g>}; separator="\n">
<dispatchMethods; separator="\n">

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ) :
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"  

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName,ctxName, label) ::= <<
  localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
  <if(label)>localctx.<label> = _prevctx<endif>
  self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName; format="cap">Context(self, _parentctx, _parentState))
  <if(label)><if(isListLabel)>
  <localctx.<label> = _prevctx<endif>
  <else> 
  <localctx.<label> = _prevctx
  <endif>
  <endif>
  self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
  localctx = <parser.name>.<ctxName>Context(self, localctx)
  self._ctx = localctx
  _prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

<namedActions.header>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

modeNames = [ <lexer.modes:{m| "<m>"}; separator="", wrap, anchor> ]

literalNames = [ "\<INVALID>",
    <lexer.literalNames:{t | <t>}; separator="", wrap, anchor> ]

symbolicNames = [ "\<INVALID>",
    <lexer.symbolicNames:{t | <t>}; separator="", wrap, anchor> ]

ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator="", wrap, anchor> ]

gr...
buf.write("<model.serialized; wrap="\n"buf.write("">")
return buf.getvalue()

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>
codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-
  jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

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*/
/** Find left-recursive rules */

```java
tree grammar LeftRecursiveRuleWalker;

options {
  tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}

@header {
  package org.antlr.v4.parse;
  import org.antlr.v4.misc.*;
  import org.antlr.v4.tool.*;
  import org.antlr.v4.tool.ast.*;
}

@members {
  private String ruleName;
  private int currentOuterAltNumber; // which outer alt of rule?
  public int numAlts; // how many alts for this rule total?

  public void setAltAssoc(AltAST altTree, int alt) {}
  public void binaryAlt(AltAST altTree, int alt) {}
  public void prefixAlt(AltAST altTree, int alt) {}
  public void suffixAlt(AltAST altTree, int alt) {}
  public void otherAlt(AltAST altTree, int alt) {}
  public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away

public
rec_rule returns [boolean isLeftRec]
@init {
  currentOuterAltNumber = 1;
}
:^((r=RULE id=RULE_REF {ruleName=$id.getText();})
ruleModifier?
//(ARG_ACTION)? shouldn't allow args, right?
(^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// // ( ^(THROWS .+) )? don't allow
( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
( ^OPTIONS .*)
| ^^(AT ID ACTION) // TODO: copy
)*
```
ruleBlock {isLeftRec = $ruleBlock.isLeftRec;
exceptionGroup
}

exceptionGroup
	:exceptionHandler* finallyClause?

exceptionHandler
	: ^(CATCH ARG_ACTION ACTION)

finallyClause
	: ^(FINALLY ACTION)

ruleModifier
	: PUBLIC
	| PRIVATE
	| PROTECTED

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
:^(BLOCK

o=outerAlternative
{if ($o.isLeftRec) $isLeftRec = true;}
{currentOuterAltNumber++;}
)+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
	: (binary)=> binary

	| (prefix)=> prefix

	| (suffix)=> suffix

	| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}

binary
	:^( ALT elementOptions? recurse element* recurse epsilonElement* )

{setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
prefix
:^{(ALT elementOptions?  
!(ConnorTree)(input.LT(1)).getText().equals(ruleName)? element)+  
recurse epsilonElement*  
}  
{setAltAssoc((AltAST)SA$ALT, currentOuterAltNumber);}  
;

suffix
:^{( ALT elementOptions? recurse element+ )  
{setAltAssoc((AltAST)SA$ALT, currentOuterAltNumber);}  
};

nonLeftRecur
:^{(ALT elementOptions? element+)}  
;

recurse
:^{(ASSIGN ID recurseNoLabel)  
|^{PLUS_ASSIGN ID recurseNoLabel)  
|recurseNoLabel  
};

recurseNoLabel : {((ConnorTree)(input.LT(1)).getText().equals(ruleName))? RULE_REF;  

token returns [GrammarAST t=null]  
:^{(ASSIGN ID s=token {t = $s.t;})  
|^{PLUS_ASSIGN ID s=token {t = $s.t;})  
|b=STRING_LITERAL   {t = $b;}  
|^{(b=STRING_LITERAL elementOptions){t = $b;  
|^{(c=TOKEN_REF elementOptions){t = $c;  
|c=TOKEN_REF      {t = $c;}  
};

elementOptions
:^{(ELEMENT_OPTIONS elementOption*)  
};
elementOption
:^{ID  
| !^{ASSIGN ID ID)  
| ^{ASSIGN ID STRING_LITERAL)  
| ^{ASSIGN ID ACTION)  
| ^{ASSIGN ID INT)  
;
element
: atom
  | ^ (NOT element)
  | ^ (RANGE atom atom)
  | ^ (ASSIGN ID element)
  | ^ (PLUS_ASSIGN ID element)
    | ^ (SET setElement+)
      | RULE_REF
  | ebnf
  | epsilonElement
  ;

epsilonElement
: ACTION
  | SEMPREDF
  | EPSILON
  | ^ (ACTION elementOptions)
  | ^ (SEMPRED elementOptions)
  ;

setElement
: ^ (STRING_LITERAL elementOptions)
  | ^ (TOKEN_REF elementOptions)
  | STRING_LITERAL
  | TOKEN_REF
  ;
ebnf: block
  | ^ (OPTIONAL block )
  | ^ (CLOSURE block )
  | ^ (POSITIVE_CLOSURE block )
  ;

block
: ^ (BLOCK ACTION? alternative+)
  ;

alternative
: ^ (ALT elementOptions? element+)
  ;

atom
: ^ (RULE_REF ARG_ACTION? elementOptions?)
  | ^ (STRING_LITERAL elementOptions)
  | STRING_LITERAL
  | ^ (TOKEN_REF elementOptions)
  | TOKEN_REF
  | ^ (WILDCARD elementOptions)
/*
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 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

/** ANTLR tool checks output templates are compatible with tool code generation.
 * For now, a simple string match used on x.y of x.y.z scheme.
 * Must match Tool.VERSION during load to templates.
 *
 * REQUIRED.
 */

pythonTypeInitMap ::= [

WILDCARD
|^\(DOT ID element\)
;

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

No license file was found, but licenses were detected in source scan.
"bool":"False",
"int":"0",
"float":"0.0",
"str":"",
default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
;if(file.genListener>)
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
;if(file.genVisitor>)
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete listener for a parse tree produced by <file.parserName>.
function <file.grammarName>Listener() {
antlr4.tree.ParseTreeListener.call(this);
return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

<file.listenerNames:{lname |
// Enter a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
};

// Exit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
};
}

}; separator="\n"

exports.<file.grammarName>Listener = <file.grammarName>Listener;
VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<header>

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
  antlr4.tree.ParseTreeVisitor.call(this);
  return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname |
// Visit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
};
}; separator="\n">
exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format='java-escape'> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
;if(superClass)
var superClass = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format='java-escape'>";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();
var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator="", wrap, anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator="", wrap, anchor> ];

var ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator="", wrap, anchor> ];

function <parser.name> (input) {
  <superClass; null="antlr4.Parser">.call(this, input);
  this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
  this.ruleNames = ruleNames;
  this.literalNames = literalNames;
  this.symbolicNames = symbolicNames;
  <namedActions.members>
    return this;
  }

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;
Object.defineProperty(<parser.name>.prototype, "atn", {
  get : function() {
    return atn;
  }
});

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)> <parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor> <endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs; separator="\n">
<if(sempredFuncs)>
<parser.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch(ruleIndex) {
    <parser.sempredFuncs.values:{f | case <f.ruleIndex>: return this.<f.name>_sempred(localctx, predIndex);}; separator="\n"> default:
      throw "No predicate with index:" + ruleIndex;
    
  }
};
<sempredFuncs.values; separator="\n">
<endif>
exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
switch (ruleIndex) {
<recog.actionFuncs.values:{f|
case <f.ruleIndex>: this.<f.name>_action(localctx, actionIndex);
break;}; separator="\n">
default:
throw "No registered action for:" + ruleIndex;
}
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
switch (ruleIndex) {
<recog.sempredFuncs.values:{f| case <f.ruleIndex>: return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
default:
throw "No registered predicate for:" + ruleIndex;
}
};

<sempredFuncs.values; separator="\n">
<endif>
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
<lexer.name>.prototype.<r.name>_action = function(localctx, actionIndex) {
switch (actionIndex) {
<actions:{index|
case <index>:
<actions.(index)>
break;}; separator="\n">
default:
throw "No registered action for:" + actionIndex;
}
/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

RuleSempredFunction(r, actions) ::= <<
<if(parser)><parser.name><else><lexer.name><endif>.prototype.<r.name>_sempred = function(localctx, predIndex) {
    switch(predIndex) {
        <actions:{index| case <index>:
            return <actions.(index)>;}; separator="\n">
        default:
            throw "No predicate with index:" + predIndex;
    }
};
>>

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;
<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator="","}> {
    var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
    this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
        <if(exceptions)
        <exceptions; separator="\n">
        <else>
        } catch (re) {
            if(re instanceof antlr4.error.RecognitionException) {
                localctx.exception = re;
                this._errHandler.reportError(this, re);
                this._errHandler.recover(this, re);
            } else {

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throw re;
}
</endif> finally {
    <finallyAction>
        this.exitRule();
    </finallyAction>
    return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble) ::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
    if(_p===undefined) {
        _p = 0;
    }
    var _parentctx = this._ctx;
    var _parentState = this.state;
    var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
    var _prevctx = localctx;
    var _startState = <currentRule.startState>;
    this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    } catch( error) {
        if(error instanceof antlr4.error.RecognitionException) {
            localctx.exception = error;
            this._errHandler.reportError(this, error);
            this._errHandler.recover(this, error);
        } else {
            throw error;
        }
    } finally {
        <finallyAction>
            this.unrollRecursionContexts(_parentctx)
        </finallyAction>
    return localctx;
};
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
  <if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
  format="cap">Context(this, localctx);<endif>
  this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
  <CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)> >>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
  <locals; separator="\n">
  <preamble; separator="\n">
  <ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
  this.state = <choice.stateNumber>;
  (!_errHandler.sync(this);!)
  <if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
  <preamble; separator="\n">
  switch(this._input.LA(1)) {
    <choice.altLook,alts:{look,alt| <cases(ttypes=look)
      <alt>
        break;}; separator="\n">
    default:
      <error>
    }
  >>

LL1OptionalBlock(choice, alts, error) ::= <<
  this.state = <choice.stateNumber>;
  (!_errHandler.sync(this);!)
  switch (this._input.LA(1)) {
    <choice.altLook,alts:{look,alt| <cases(ttypes=look)
      <alt>
        break;}; separator="\n">
    default:
      <error>
  }
  >>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
  this.state = <choice.stateNumber>;
  (!_errHandler.sync(this);!)
  <preamble; separator="\n">
  if(<expr>) {
    <alts; separator="\n>
  }
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
    this.state = <choice.stateNumber>;
    this._errHandler.sync(this);
    <preamble; separator="\n">
    while(<loopExpr>) {
        <alts; separator="\n">
        this.state = <choice.loopBackStateNumber>;
        this._errHandler.sync(this);
        <iteration>
    }
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
    this.state = <choice.blockStartStateNumber>; <! alt block decision !>
    this._errHandler.sync(this);
    <preamble; separator="\n">
    do {
        <alts; separator="\n">
        this.state = <choice.stateNumber>; <! loopback/exit decision !>
        this._errHandler.sync(this);
        <iteration>
    } while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
    this.state = <choice.stateNumber>;
    <!_errHandler.sync(this);!>
    <if(choice.label)><labelref(choice.label) = _input.LT(1)<endif>
    <preamble; separator="\n">
    var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
    switch(la_) {
        <alts:{alt |
        case <i>:
        <alt>
        break;
    }; separator="\n">
    } >>

OptionalBlock(choice, alts, error) ::= <<
    this.state = <choice.stateNumber>;
    <!_errHandler.sync(this);!>
    

var la_ = this._interp.adaptivePredict(this._input, <choice.decision>, this._ctx);
<alts:{alt | if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="n} else "}>
}

StarBlock(choice, alts, sync, iteration) ::= <<
  this.state = <choice.stateNumber>;
  this._errHandler.sync(this);
  var _alt = this._interp.adaptivePredict(this._input, <choice.decision>, this._ctx)
  while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
    if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
      <iteration>
      <alts> <! should only be one !>
    }
    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    _alt = this._interp.adaptivePredict(this._input, <choice.decision>, this._ctx);
  }
>>

PlusBlock(choice, alts, error) ::= <<
  this.state = <choice.blockStartStateNumber>; <! alt block decision !>
  this._errHandler.sync(this);
  var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
  do {
    switch (_alt) {
    <alts:{alt|
      <alt> <alt>
      break;}; separator="n"> default: <error>
    }
    this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
    this._errHandler.sync(this);
    _alt = this._interp.adaptivePredict(this._input, <choice.decision>, this._ctx);
  } while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount> & ~0x1f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>}) && ((1 << <offsetShiftVar(s.varName, 
bits.shift)>)) && (<bits.ttypes:{ttype | (1 << <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%

cases(ttypes) ::= <<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)> <r.labels:{l | labelref(l)} = ]><endif>this.<r.name>(<if(r.ast.options.p)<r.ast.options.p><if(argExprsChunks)>,<endif><argExprsChunks>), <endif><argExprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)<m.labels:{l | labelref(l)} = ]><endif>this.match(<parser.name>.<m.name>);
>>
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
  this.state = <m.stateNumber>;
  <if(m.labels)> <m.labels:{l | <labelref(l)> = } > this._input.LT(1); <endif>
  <capture>
  <if(invert)> if(<m.varName>\=<0 || <expr>)<else>if(!(<expr>))<endif> {
    <if(m.labels)> <m.labels:{l | <labelref(l)> = } > <endif>this._errHandler.recoverInline(this);
  }
  else {
    this.consume();
  }
>>

Wildcard(w) ::= <<
  this.state = <w.stateNumber>;
  <if(w.labels)> <w.labels:{l | <labelref(l)> = } > <endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
  this.state = <p.stateNumber>;
  if (!(<chunks>)) {
    throw new antlr4.error.FailedPredicateException(this, <p.predicate> <if(failChunks)>, <failChunks> <elseif(p.msg)>, <p.msg> <endif>);
  }
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
  catch (<catchArg>) {
    <catchAction>
  }
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg) ::= "this._type = <arg>"
LexerChannelCommand(arg) ::= "this._channel = <arg>"
LexerModeCommand(arg)  ::= "this._mode = <arg>"
LexerPushModeCommand(arg) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label> === null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label> === null ? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start, <ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()>.type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
  <t.name> = function() {
    return this.getToken(<parser.name>.<t.name>, 0);
  };
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
  def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
  <t.name> = function(i) {
    if(i===undefined) {
      i = null;
    }
    if(i===null) {
      return this.getTokens(<parser.name>.<t.name>);
    } else {
      return this.getToken(<parser.name>.<t.name>, i);
    }
  };
>>

ContextRuleGetterDecl(r) ::= <<
  <r.name> = function() {
    return this.getTypedRuleContext(<r.ctxName>,0);
  };
>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
  def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
  <r.name> = function(i) {
    if(i===undefined) {
      i = null;
    }
    if(i===null) {
      return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
    } else {
      return this.getTypedRuleContext(<parser.name>.<r.ctxName>, i);
    }
  };
>>
return this.getTypedRuleContext(<r.ctxName>);
} else {
  return this.getTypedRuleContext(<r.ctxName>,i);
}
};

LexerRuleContext() ::= "RuleContext"
/** The rule context name is the rule followed by a suffix; e.g.,
 r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>";
ListLabelName(label) ::= "<label>"
CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
  superClass={antlr4.ParserRuleContext}) ::= <<
  function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
    if(parent===undefined) {
      parent = null;
    }
    if(invokingState===undefined || invokingState===null) {
      invokingState = -1;
    }
    <superClass>.call(this, parent, invokingState);
    this.parser = parser;
    this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
    <attrs:{a | <a>}; separator="\n">;
    <struct.ctorAttrS:{a | this.<a.name> = <a.name> || null;}; separator="\n">;
    return this;
  }
  <struct.name>.prototype = Object.create(<superClass>.prototype);
  <struct.name>.prototype.constructor = <struct.name>;

  <getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">;

  <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    <struct.name>.prototype.copyFrom = function(ctx) {
      <superClass>.prototype.copyFrom.call(this, ctx);
      <struct.attrs:{a | this.<a.name> = ctx.<a.name>}; separator="\n">;
    }
  </if(struct.provideCopyFrom)>
AltLabelStructDecl(struct, attrs, getters, dispatchMethods) ::= <<
  function <struct.name>(parser, ctx) {
    <currentRule.name; format="cap">Context.call(this, parser);
    <attrs:{a | <a>;}; separator="\n"
    <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
    return this;
  }

  <struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
  <struct.name>.prototype.constructor = <struct.name>;

  <! Define fields of this parser to export this struct/context class !>
  <parser.name>.<struct.name> = <struct.name>;

  <getters:{g | <struct.name>.prototype.<g>;}; separator="\n\n"
  <dispatchMethods; separator="\n"

>>

ListenerDispatchMethod(method) ::= <<
  <struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
    if(listener instanceof <parser.grammarName>Listener ) {
      listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
    }
  };

>>

VisitorDispatchMethod(method) ::= <<
  <struct.name>.prototype.accept = function(visitor) {
    if ( visitor instanceofof <parser.grammarName>Visitor ) {
      return visitor.visit<struct.derivedFromName; format="cap">(this);
    } else {
      return visitor.visitChildren(this);
    }
  };

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"
/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName,ctxName,label) ::= <<
localctx = new <ctxName>Context(this,_parentctx,_parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx,_startState,<parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName,currentAltLabel,label,isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this,new <ruleName; format="cap">Context(this,_parentctx,_parentState));
<if(label)>
  <if(isListLabel)>
    localctx.<label>.push(_prevctx);
  <else>
    localctx.<label> = _prevctx;
  <endif>
<endif>
<endif>
this.pushNewRecursionContext(localctx,_startState,<parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this,localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
  this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

LexerFile(lexerFile,lexer,namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,lexerFile.ANTLRVersion)>
var antlr4 = require('antlr4/index');
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);
var decisionsToDFA = atn.decisionToState.map(function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

function lexer.name(input) {
    if(superClass) superClass.lexer.endif().call(this, input);
    this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new antlr4.PredictionContextCache());
    return this;
}

lexer.name.prototype = Object.create(if(superClass) superClass.lexer.endif().prototype);
lexer.name.prototype.constructor = lexer.name;

lexer.name.EOF = antlr4.Token.EOF;
lexer.tokens:{k | lexer.name.<k> = lexer.tokens.(k);} separator="\n", wrap, anchor

rest(lexer.modes):{m | lexer.name.<m> = i;}; separator="\n"

lexer.name.modeNames = [ lexer.modes:{m "<m>"}; separator=", ", wrap, anchor ];

lexer.name.literalNames = [ lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor ];

lexer.name.symbolicNames = [ lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor ];

lexer.name.ruleNames = [ lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor ];

lexer.name.grammarFileName = "lexer.grammarFileName";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.lexer.name = lexer.name;

>>

SerializedATN(model) ::= <<
var serializedATN = "<model.serialized; wrap={"<\n>  "} join("");

/** Using a type to init value map, try to init a type; if not in table
  * must be an object, default value is "null".
  */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>
codeFileExtension() ::= ".js"

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-
  jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
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lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}

// ignore comments right away

COMMENT
    : '/'' ( options {greedy=false;} : .)* '/'' {delegate(text($text));}
    ;

LINE_COMMENT
    : '/'' ~(\n'|\r')* 'r'? '\n' {delegate(text($text));}
    ;

SET_NONLOCAL_ATTR
    : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
    ;
{ delegate.setNonLocalAttr($text, $x, $y, $expr); }

NONLOCAL_ATTR
: $ x=ID ' '::' y=ID { delegate.nonLocalAttr($text, $x, $y); } ;

QUALIFIED_ATTR
: $ x=ID ' ' y=ID { input.LA(1)!='(')? { delegate.qualifiedAttr($text, $x, $y); } ;

SET_ATTR
: $ x=ID WS? '=' expr=ATTR_VALUE_EXPR ' '
{ delegate.setAttr($text, $x, $expr); } ;

ATTR
: $ x=ID { delegate.attr($text, $x); } ;

// Anything else is just random text

TEXT
@init { StringBuilder buf = new StringBuilder(); }
@after { delegate.text(buf.toString()); }
: (c=~('\'|'\$') { buf.append((char)$c); } |
'\$' { buf.append('$$'); } |
'\' c=~('$') { buf.append('\').append((char)$c); } |
{ !isIDStartChar(input.LA(2))}? => '$' { buf.append('$$'); } )+
;

fragment
ID : ('a'..'z'|'A'..'Z'|'_' ') ('a'..'z'|'A'..'Z'|'0'..'9'|'_' )+
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
: '-=' (~('-')*)
;

fragment
WS : (' '|'	'|'
'|'')+
;
Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/antlr/v4/parse/ActionSplitter.g
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tree grammar BlockSetTransformer;
options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
    output		 = AST;
    filter		 = true;
}

@header {
    package org.antlr.v4.parse;
    import org.antlr.v4.misc.Utils;
    import org.antlr.v4.misc.***;
    import org.antlr.v4.tool.***;
    import org.antlr.v4.tool.ast.***;
    import java.util.List;
    import java.util.Set;
    import java.util.HashSet;
    import java.util.ArrayList;
    import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
    public String currentRuleName;
    public GrammarAST currentAlt;
    public Grammar g;
    public BlockSetTransformer(TreeNodeStream input, Grammar g) {
        this(input, new RecognizerSharedState());
        this.g = g;
    }
}
topdown
  :^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
  setAlt
  |ebnfBlockSet
  |blockSet
  ;

setAlt
  :{inContext("RULE BLOCK")}?  
  ALT {currentAlt = $start;}
  ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
  ebnfBlockSet
  @after { 
    GrammarTransformPipeline.setGrammarPtr(g, $tree);
  }
  :^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
  ;

ebnfSuffix
  @after { Stree = (GrammarAST)adaptor.dupNode($start);}
  :OPTIONAL  
  |CLOSURE  
  |POSITIVE_CLOSURE
  ;

blockSet
  @init { 
    boolean inLexer = Grammar.isTokenName(currentRuleName);
  }
  @after { 
    GrammarTransformPipeline.setGrammarPtr(g, Stree);
  }
  :{inContext("RULE")}? /* top-level: rule block and > 1 alt */
  -> ^(BLOCK<BlockAST>[$SBLOCK.token] ^(ALT<AltAST>[$SBLOCK.token,"ALT"] ^<SET>$SBLOCK.token, "SET" setElement+))
  ![inContext("RULE")]? /* if not rule block and > 1 alt */
  -> ^(SET[$SBLOCK.token, "SET"] setElement+)
  ;

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, Stree);
}

:^((a=STRING_LITERAL elementOptions) {!inLexer ||
  CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=> TOKEN_REF
  | {inLexer}?=> (^RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?)

  ^ELEMENT_OPTIONS elementOption*)
  ;

  ELEMENT_OPTION
  :ID
  |^(ASSIGN id=ID v=ID)
  |^(ASSIGN ID v=STRING_LITERAL)
  |^(ASSIGN ID v=ACTION)
  |^(ASSIGN ID v=INT)
  ;

Found in path(s):
  * /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-
  jar/org/antlr/v4/parse/BlockSetTransformer.g
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*/

tree grammar SourceGenTriggers;
options {
  language     = Java;
  tokenVocab   = ANTLRParser;
  ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}

@members {
public OutputModelController controller;
  public boolean hasLookaheadBlock;
  public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
    this(input);
    this.controller = controller;
  }
}

dummy : block[null, null] ;

  :^(blk=BLOCK (^OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
    ( alternative {alts.add($alternative.altCodeBlock);} )+
  }
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
    $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
    Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
    hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(choice);
}
}
}
}

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    boolean outerMost = inContext("RULE BLOCK");
}

@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
:a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
:
List<SrcOp> elems = new ArrayList<SrcOp>();
// TODO: shouldn't we pass $start to controller.alternative()?
$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )
|	^(ALT elementOptions? EPSILON)
    {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;

element returns [List<? extends SrcOp> omos]
:labeledElement{$omos = $labeledElement.omos;}
|atom[null,false]{$omos = $atom.omos;}
|subrule{$omos = $subrule.omos;}
|   ACTION{$omos = controller.action((ActionAST)$ACTION;}
|   SEMPRED{$omos = controller.sempred((ActionAST)$SEMPRED;}

labeledElement returns [List<? extends SrcOp> omos]
  ^(ASSIGN ID atom[$ID,false] ){$omos = $atom.omos;}
  ^(PLUS_ASSIGN ID atom[$ID,false]){ $omos = $atom.omos;}
  ^(ASSIGN ID block[$ID,null] ){$omos = $block.omos;}
  ^(PLUS_ASSIGN ID block[$ID,null]){ $omos = $block.omos;}

subrule returns [List<? extends SrcOp> omos]
  ^(OPTIONAL b=block[null,$OPTIONAL])
  {
    $omos = $block.omos;
  }
  ^(op=CLOSURE b=block[null,null])
  ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
    List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
    SrcOp blk = $b.omos.get(0);
    CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
    alt.addOp(blk);
    alts.add(alt);
    SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(loop);
  }
  | block[null, null]{$omos = $block.omos;}

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
  ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}

/*
setElement
 :STRING_LITERAL
 |TOKEN_REF
 |^(RANGE STRING_LITERAL STRING_LITERAL)
 :*/

// TODO: combine ROOT/BANG into one then just make new op reifying return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
  ^(NOT a=atom[$label, true]){ $omos = $a.omos;}

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range[label] { $omos = $range.omos; }

^(DOT ID terminal[label])

^(DOT ID ruleref[label])
  ^(WILDCARD .) { $omos = controller.wildcard($WILDCARD, $label); }
  [WILDCARD] { $omos = controller.wildcard($WILDCARD, $label); }
  [
    terminal[label] { $omos = $terminal.omos; }
    ruleref[label] { $omos = $ruleref.omos; }
  ]
blockSet[label, invert] { $omos = $blockSet.omos; }

ruleref[GrammarAST label] returns [List<SrcOp> omos]
  ^(RULE_REF ARG_ACTION? elementOptions?) { $omos = controller.rule($RULE_REF, $label, $ARG_ACTION); }

range[GrammarAST label] returns [List<SrcOp> omos]
  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)

terminal[GrammarAST label] returns [List<SrcOp> omos]
  ^(STRING_LITERAL .) { $omos = controller.stringRef($STRING_LITERAL, $label); }
  [STRING_LITERAL] { $omos = controller.stringRef($STRING_LITERAL, $label); }
  ^(TOKEN_REF ARG_ACTION .) { $omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION); }
  ^(TOKEN_REF .) { $omos = controller.tokenRef($TOKEN_REF, $label, null); }
  [TOKEN_REF] { $omos = controller.tokenRef($TOKEN_REF, $label, null); }

elementOptions
  ^(ELEMENT_OPTIONS elementOption+)

elementOption
  : ID
  | ^(ASSIGN ID ID)
  | ^(ASSIGN ID STRING_LITERAL)
  | ^(ASSIGN ID ACTION)
  | ^(ASSIGN ID INT)

Found in path(s):
  * /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g

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*
// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
    <fileHeader(file.grammarFileName, file.ANTLRVersion)>
    <if(file.genPackage)>
    namespace <file.genPackage> { 
    <endif>
    <namedActions.header>
    using System;
    using System.Text;
    using System.Diagnostics;
    using System.Collections.Generic;
    using Antlr4.Runtime;
    using Antlr4.Runtime.Atn;
    using Antlr4.Runtime.Misc;
    using Antlr4.Runtime.Tree;
    using DFA = Antlr4.Runtime.Dfa.DFA;

    <parser>
    <if(file.genPackage)>
    } // namespace <file.genPackage>
    <endif>
ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> { 
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// <summary>
/// This interface defines a complete listener for a parse tree produced by
/// <see cref="<csIdentifier.(file.parserName)>"/>.
/// </summary>
public interface I<file.grammarName>Listener : IParseTreeListener {
<file.listenerNames:{lname |
/// <summary>
/// Enter a parse tree produced by the \c<lname>\c labeled alternative in <see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
/// </summary>
/// <param name="context">The parse tree.</param>
void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context);
/// </summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \c<lname>\c labeled alternative in <see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
/// </summary>
/// <param name="context">The parse tree.</param>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context);
<else>
/// Exit a parse tree produced by <see cref="<file.parserName>.<lname>"/>.
<endif>
/// </summary>
/// <param name="context">The parse tree.</param>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context);
} // namespace <file.genPackage>
<endif>
>>
BaseListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
    <endif>
    <header>

    using Antlr4.Runtime.Misc;
    using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
    using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
    using IToken = Antlr4.Runtime.IToken;

    /// <summary>
    /// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
    /// which can be extended to create a listener which only needs to handle a subset
    /// of the available methods.
    /// </summary>
    [System.CLSCompliant(false)]
    public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
        <file.listenerNames:{lname |
            /// <summary>
            /// Enter a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>"/>
            /// The default implementation does nothing.
            /// </summary>
            /// <param name="context">The parse tree.</param>
            public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 

            /// <summary>
            /// Exit a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>"/>
            /// The default implementation does nothing.
            /// </summary>
            /// <param name="context">The parse tree.</param>
            public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 

            /// <inheritdoc/>
            /// <remarks>The default implementation does nothing.</remarks>
            public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { } 

            /// <inheritdoc/>
            /// <remarks>The default implementation does nothing.</remarks>
            public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { } 

            /// <inheritdoc/>
            /// <remarks>The default implementation does nothing.</remarks>
            public virtual void VisitTerminal([NotNull] ITerminalNode node) { } 

        } 

    } 

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// </summary>
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames:{lname |
        /// <summary>
        /// Enter a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>"/>
        /// The default implementation does nothing.
        /// </summary>
        /// <param name="context">The parse tree.</param>
        public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 

        /// <summary>
        /// Exit a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>"/>
        /// The default implementation does nothing.
        /// </summary>
        /// <param name="context">The parse tree.</param>
        public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 

        /// <inheritdoc/>
        /// <remarks>The default implementation does nothing.</remarks>
        public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { } 

        /// <inheritdoc/>
        /// <remarks>The default implementation does nothing.</remarks>
        public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { } 

        /// <inheritdoc/>
        /// <remarks>The default implementation does nothing.</remarks>
        public virtual void VisitTerminal([NotNull] ITerminalNode node) { } 

        /// <inheritdoc/>
        /// <remarks>The default implementation does nothing.</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime(IToken);

/// \summary
/// This interface defines a complete generic visitor for a parse tree produced
/// by \see cref="<csIdentifier.(file.parserName)>"/..
/// \summary
/// \typeparam name="Result">The return type of the visit operation.\</typeparam>
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
<file.visitorNames:{lname |
/// \summary
/// Visit a parse tree produced by the \c<lname>\</c>
/// labeled alternative in \see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/..
<else>
/// Visit a parse tree produced by \see cref="<file.parserName>.<lname>"/..
<endif>
/// \summary
/// \param name="context">The parse tree.\</param>
/// \return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
</if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {

---

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using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// <summary>
/// This class provides an empty implementation of \see cref="I<file.grammarName>Visitor{Result}">,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// </summary>
/// <typeparam name="Result">The return type of the visit operation.</typeparam>
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,
I<file.grammarName>Visitor<Result> {

/// <summary>
/// Visit a parse tree produced by \see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>".
/// The default implementation returns the result of calling \see cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)"
/// on \paramref name="context".\</para>
/// </summary>
/// <param name="context">The parse tree.</param>
/// <return>The visitor result.</return>
public virtual Result Visit<lname; format="cap">([NotNull]<csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { return VisitChildren(context); };

// namespace <file.genPackage>
<endif>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------
//\<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
//\<auto-generated>
//------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...
#pragma warning disable 1591

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
  <Parser_(ctor="parser_ctor", ...)>;

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
  [System.CLSCompliant(false)]
  public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {<if(parser.tokens)>  public const int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=" ", wrap, anchor>;  <endif>
  public const int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=" ", wrap, anchor>;  public static readonly string[] ruleNames = {
    <parser.ruleNames:{r | "<r>"}; separator=" ", wrap, anchor>
  };

  <vocabulary(parser.literalNames, parser.symbolicNames)>

  public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

  public override string[] RuleNames { get { return ruleNames; } }

  public override string SerializedAtn { get { return _serializedATN; } }

  <namedActions.members>
  <parser:(ctor)()>
  <funcs; separator="\n">

  <if(sempredFuncs)>
  public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
      <parser.sempredFuncs.values:{f|
        case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator=" \n">
    }
    return true;
  }
<semprredFuncs.values; separator="\n">

<endif>

<vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
<literalNames:{t | <t>}; null="null", separator="", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
<symbolicNames:{t | <t>}; null="null", separator="", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
get
{
return DefaultVocabulary;
}
}

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
switch (ruleIndex) {
<recog.actionFuncs.values:{f|
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
}

<actionFuncs.values; separator="\n">
<endif>

<if(semprredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<recog.semprredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
}

return true;
}

<semprredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input)
: base(input)
{
Interpreter = new ParserATNSimulator(this._ATN);
}
>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain. */
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
switch (actionIndex) {
<actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
}
}
>>

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain. */
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
switch (predIndex) {
<actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
}
return true;
}
>>

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<
<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator="", ») { 
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | , <csIdentifier.(a.name)> }>>);
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
finally {
    <finallyAction>
ExitRule();
}
return _localctx;
}

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::= <<
    <if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator="", "> { 
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
    EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <if(currentRule.hasLookaheadBlock)>
            int _alt;
        <endif>
        <code>
        <postamble; separator="\n">        <namedActions.after>
    }
    catch (RecognitionException re) {
        _localctx.exception = re;
       ErrorHandler.ReportError(this, re);
        ErrorHandler.Recover(this, re);
    }
    finally {
        <finallyAction>
        ExitRule();
    }
    return _localctx;
    }
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::= <<

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<ruleCtx>
<altLabelCtxs:{1 | <altLabelCtxs.(l)}>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>({args; separator="", }){
return <csIdentifier.(currentRule.name)>({currentRule.args:{a | , <csIdentifier.(a.name)>}});}

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>({_p|args:{a | , <a>}}) {
ParserRuleContext _parentctx = Context;
int _parentState = State;
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
<currentRule.ctxType> _prevctx = _localctx;
int _startState = <currentRule.startState>;
EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock>)
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
_localctx.exception = re;
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
finally {
<finallyAction>
UnrollRecursionContexts(_parentctx);
}
return _localctx;
}

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentOuterMostAltCodeBlock=curr...>...)> >>
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
<if(choice.label)><labelref(choice.label) = TokenStream.Lt(1);<endif>
<preamble; separator="\n">
switch (TokenStream.La(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)}>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
switch (TokenStream.La(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)}>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
<!else if (!(<followExpr>) ) <error>!>
>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">

while (<loopExpr>) {
  <alts; separator="\n">
  State = <choice.loopBackStateNumber>;
  ErrorHandler.Sync(this);
  <iteration>
  }>
  LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
  State = <choice.blockStartStateNumber>;<! alt block decision !>
  ErrorHandler.Sync(this);
  <preamble; separator="\n">
  do {
  <alts; separator="\n">
  State = <choice.stateNumber>;<! loopback/exit decision !>
  ErrorHandler.Sync(this);
  <iteration>
  } while ( <loopExpr> );
  >>

  // LL(*) stuff

  AltBlock(choice, preamble, alts, error) ::= <<
  State = <choice.stateNumber>;
  <!ErrorHandler.sync(this);!>
  <if(choice.label)><labelref(choice.label) = TokenStream.Lt(1);<endif>
  <preamble; separator="\n">
  switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) { 
  <alts:{alt |
  case <i>:
  <alt>
  break;}; separator="\n">
  }
  >>

  OptionalBlock(choice, alts, error) ::= <<
  State = <choice.stateNumber>;
  <!ErrorHandler.sync(this);!>
  switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) { 
  <alts:{alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
  }
  >>

  StarBlock(choice, alts, sync, iteration) ::= <<
  State = <choice.stateNumber>;

ErrorHandler.Sync(this);

_state = Interpreter.AdaptivePredict(TokenStream,_choice,Context);
while ( _state!=<choice.exitAlt> && _state!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber ) {
  if ( _state=1<if(!choice.ast.greedy)>+1<endif> ) {
    <iteration>
    <alts> <! should only be one !>
  }
  _state = <choice.loopBackStateNumber>;
  ErrorHandler.Sync(this);
  _state = Interpreter.AdaptivePredict(TokenStream,_choice,Context);
}

>>

PlusBlock(choice, alts, error) ::= <<
  State = <choice.blockStartStateNumber>;<! alt block decision !>
  ErrorHandler.Sync(this);
  _state = 1<if(!choice.ast.greedy)>+1<endif>;
  do {
    switch (_state) {
      <alts:{alt|
        case <i><if(!choice.ast.greedy)>+1<endif>:
          <alt>
          break;}; separator="\n">
      default:
        <error>
    }
    _state = <choice.loopBackStateNumber>;<! loopback/exit decision !>
    ErrorHandler.Sync(this);
    _state = Interpreter.AdaptivePredict(TokenStream,_choice,Context);
  } while ( _state!=<choice.exitAlt> && _state!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
  <s.bitsets:{bits | <if(rest(rest(bits.ttypes))))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
  ((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <

---

Open Source Used In Tetration 3.5.1 7589
(testShiftInRange({<offsetShift(s.varName, bits.shift)>)}) & (1L << <offsetShift(s.varName, bits.shift)>) & (bits.ttypes:{ttype | (1L << <offsetShift(tokenType.(ttype), bits.shift)>)}; separator=" | ") != 0)

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>=<tokenType.(ttype)>}; separator=" || ">
%

cases(ttypes) ::= <<
ttypes:{t | case <tokenType.(t)>:}; separator="\n">

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{l | <labelref(l)> = }><endif><csIdentifier.(r.name)>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>);

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false>)"  
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true>)"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>TokenStream.Lt(1);<endif>
capture
if ( <if(invert)><m.varName> <= 0 || <else>!<endif>(<expr>) ) {
  <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
} else {
  Consume();
}
>>
Wildcard(w) ::= <<
   State = <w.stateNumber>;
   <if(w.labels)> <w.labels:{l | <labelref(l)> = }><endif> MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
   State = <p.stateNumber>;
   if (!<chunks>) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
   catch (<catchArg>) {
      <catchAction>
   }
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg) ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg) ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg) ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"
TokenPropertyRef_text(t) ::= "(@ctx(t).<tokenType.(t.label)>!=null?@ctx(t).<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(@ctx(t).<tokenType.(t.label)>!=null?@ctx(t).<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(@ctx(t).<tokenType.(t.label)>!=null?@ctx(t).<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::= "(@ctx(t).<tokenType.(t.label)>!=null?@ctx(t).<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::= "(@ctx(t).<tokenType.(t.label)>!=null?@ctx(t).<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::= "(@ctx(t).<tokenType.(t.label)>!=null?@ctx(t).<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::= "(@ctx(t).<tokenType.(t.label)>!=null?int.Parse(@ctx(t).<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(@ctx(r).<r.label>!=null?(@ctx(r).<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "(@ctx(r).<r.label>!=null?(@ctx(r).<r.label>.Stop):null)"
RulePropertyRef_text(r) ::= "(@ctx(r).<r.label>!=null?TokenStream.GetText(@ctx(r).<r.label>.Start, @ctx(r).<r.label>.Stop):null)"
RulePropertyRef_ctxt(r) ::= "(@ctx(r).<r.label>)"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.Lt(-1))"
ThisRulePropertyRef_ctxt(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%(<s.ruleName; format="cap">Context.GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::= <%(<s.ruleName; format="cap">Context.GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> = <rhsChunks>;%>

AddToLabelList(a) ::= "(@ctx(a.label>).Add(labelref(a.label));"

TokenDecl(t) ::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"
TokenListDecl(t) ::= "ILList<IToken> <csIdentifier.(tokenType.(t.name))> = new ILList<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "ILList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new ILList<<rdecl.ctxName>>()"

collection(elementType) ::= <%
<elementType>[]
%
>

ContextTokenGetterDecl(t) ::= "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name>).<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
public <contextGetterCollection("ITerminalNode")> \text{<csIdentifier.(tokenType.(t.name))>}( ) { return GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
public ITerminalNode \text{<csIdentifier.(tokenType.(t.name))>}(int i) {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>

ContextRuleGetterDecl(r) ::= <<
public \text{<r.ctxName> \text{<csIdentifier.(r.name)>}}() {
return GetRuleContext\text{<<r.ctxName>>}(0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
public \text{<contextGetterCollection({<r.ctxName>})> \text{<csIdentifier.(r.name)>}}() {
return GetRuleContexts\text{<<r.ctxName>>}();
}
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
public \text{<r.ctxName> \text{<csIdentifier.(r.name)>}(int i) {
return GetRuleContext\text{<<r.ctxName>>}(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * \text{r} becomes \text{rContext}.
 */

RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.Lt(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.La(1);"

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers, superClass={ParserRuleContext}) ::= <<
public partial class \text{<struct.name>} : <superClass>; \text{<interfaces; separator=","}> { public \text{<struct.name>} (ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}
public \text{<struct.name>}(ParserRuleContext parent, int invokingState<ctorAttrs>{a | , <a>}>)

Open Source Used In Tetration 3.5.1 7593
public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }

if(struct.provideCopyFrom) <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public virtual void CopyFrom(<struct.name> context) {
base.CopyFrom(context);
<struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
<dispatchMethods; separator="\n">
}

ListenerDispatchMethod(method) ::= <<
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName; format="cap">(this);
}

VisitorDispatchMethod(method) ::= <<
public override TResult Accept\<TResult\>(IParseTreeVisitor\<TResult\> visitor) {
I<parser.grammarName>Visitor\<TResult\> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult\>;
if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
else return visitor.VisitChildren(this);
}

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "Context.Stop = TokenStream.Lt(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = new <ctxName>Context(_parentctx, _parentState);
    <if(label)>
        <if(isListLabel)>
            _localctx.<label>.Add(_prevctx);
        <else>
            _localctx.<label> = _prevctx;
        <endif>
    <endif>
    PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
    _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx, _parentState));
    <if(label)>
        <if(isListLabel)>
            ((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
        <else>
            ((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
        <endif>
    <endif>
    PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
    _localctx = new <ctxName>Context(_localctx);
    Context = _localctx;
    _prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
    if ( ParseListeners!=null )
        TriggerExitRuleEvent();
    _prevctx = _localctx;
>>
LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;
<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
public const int
<lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<if(lexer.channels)>
public const int
<lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<rest(lexer.modes):{m| public const int <modeName.(m)> = <i>;}; separator="\n">
public static string[] modeNames = {
<lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};
public static readonly string[] ruleNames = {
<lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};
<namedActions.members>
public <csIdentifier.(lexer.name)>(ICharStream input)
: base(input)
{
Interpreter = new LexerATNSimulator(this,_ATN);
}
<vocabulary(lexer.literalNames, lexer.symbolicNames)>
public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

Open Source Used In Tetration 3.5.1 7596


public override string[] RuleNames { get { return ruleNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return _serializedATN; } }

<dumpActions(lexer, "\", actionFuncs, sempredFuncs)>
<atn>
} 

>>

SerializedATN(model) ::= <<
public static readonly string _serializedATN = "<model.serialized; wrap=\"{+\n}>"; 
public static readonly ATN _ATN = new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());
>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
"DEFAULT_MODE" : "DefaultMode",
default : key
]

channelName ::= [
"HIDDEN" : "Hidden",
"DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
default : key
]

tokenType ::= [
"EOF" : "Eof",
default : key
]

csIdentifier ::= [
"abstract" : "@abstract",
"as" : "@as",
"base" : "@base",
"bool" : "@bool",
"break" : "@break",
}
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
"true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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*/
/*

This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
  */opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/antlr/v4/tool/templates/messages/formats/vs2005.stg

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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

/** ANTLR tool checks output templates are compatible with tool code generation.
 * For now, a simple string match used on x.y of x.y.z scheme.
 * Must match Tool.VERSION during load to templates.
 *
 * REQUIRED.
 */

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str":"

  default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
  <fileHeader(file.grammarFileName, file.ANTLRVersion)>
  # encoding: utf-8
  from __future__ import print_function
  from antlr4 import *
  from io import StringIO

  <namedActions.header>
  <parser>

>>

ListenerFile(file, header) ::= <<
  <fileHeader(file.grammarFileName, file.ANTLRVersion)>
  from antlr4 import *
  <header>

  # This class defines a complete listener for a parse tree produced by <file.parserName>.
class `<file.grammarName>Listener(ParseTreeListener):

    `<file.listenerNames:`

# Enter a parse tree produced by `<file.parserName>`#<lname>.
def enter<lname; format="cap">(self, ctx):
    pass

# Exit a parse tree produced by `<file.parserName>`#<lname>.
def exit<lname; format="cap">(self, ctx):
    pass

`; separator="\n">

>>

VisitorFile(file, header) ::= <<
`<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by `<file.parserName>`.

class `<file.grammarName>Visitor(ParseTreeVisitor):

    `<file.visitorNames:`

# Visit a parse tree produced by `<file.parserName>`#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

`; separator="\n">

>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from `<grammarFileName` by ANTLR `<ANTLRVersion`

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
`<Parser_(ctor="parser_ctor", ...)>

>>

Parser_( parser, funcs, atn, sempredFuncs, ctor, superClass ) ::= <<
`<if(superClass)>
from .<superClass> import <superClass>

<endif>`
class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{t | u<t>}; null="<INVALID>", separator="", wrap, anchor> ]

    symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="<INVALID>", separator="", wrap, anchor> ]

<parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

    ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator="", wrap, anchor> ]

    EOF = <TokenLabelType>().EOF
    <if(parser.tokens)>

    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>

    <endif>

    <parser:(ctor)>()

    <namedActions.members>

    <funcs; separator="\n">

<if(sempredFuncs)>
    def sempred(self, localctx, ruleIndex, predIndex):
        if self._predicates == None:
            self._predicates = dict()
<parser.sempredFuncs.values:{f | self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        "}

    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sempredFuncs.values; separator="\n">
<endif>
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
        <recog.actionFuncs.values:{f|
            actions[f.ruleIndex] = self.f.name_action ; separator="\n">
        self._actions = actions
        action = self._actions.get(ruleIndex, None)
        if action is not None:
            action(localctx, actionIndex)
        else:
            raise Exception("No registered action for:" + str(ruleIndex))
        <actionFuncs.values; separator="\n">
    <endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates is None:
        preds = dict()
        <recog.sempredFuncs.values:{f|
            preds[f.ruleIndex] = self.f.name_sempred}; separator="\n">
        self._predicates = preds
        pred = self._predicates.get(ruleIndex, None)
        if pred is not None:
            return pred(localctx, predIndex)
        else:
            raise Exception("No registered predicate for:" + str(ruleIndex))
    <sempredFuncs.values; separator="\n">
    <endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input):
    super(<parser.name>, self).__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None
>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
    <actions:{index}
    <if(first(actions))>
        if actionIndex == <index>:
            <actions.(index)>
    <elseif(rest(actions))>
        elif actionIndex == <index>:
            <actions.(index)>
    <endif> ]; separator="\n"
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<

def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index}
    <if(first(actions))>
        if predIndex == <index>:
            return <actions.(index)>
    <elseif(rest(actions))>
        elif predIndex == <index>:
            return <actions.(index)>
    <endif> ]; separator="\n"
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions) ::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
        <if(exceptions)>
        
    }}
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
<endif>
finally:
    <finallyAction>
    self.exitRule()
return localctx

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::=
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel; format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)> >>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)<labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 pass}; separator="\n">
else:
 <error>
>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 pass}; separator="\n">
else:
 <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if <expr>:
 <alts; separator="\n">
_else if (!<followExpr>) <error>!
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
<alts; separator="\n">
self.state = <choice.loopBackStateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
<alts; separator="\n">
self.state = <choice.stateNumber> <! loopback/exit decision !>
self._errHandler.sync(self)
<iteration>
if not (<loopExpr>):
    break
<iteration>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
<alts; separator="\n">
self.state = <choice.stateNumber> <! loopback/exit decision !>
self._errHandler.sync(self)
<iteration>
if not (<loopExpr>):
    break
<iteration>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
    if la_ == <i>:
        <alt>
        pass
    }; separator="\nel">

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
    if la_ == <i>if(!choice.ast.greedy)>+1<endif>:
        <alt>
    }; separator="\nel">
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_al = self._interp.adaptivePredict(self._input, choice.decision, self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    if _alt==1:<if(!choice.ast.greedy)>+1<endif>:
        <iteration>
        <alts> <! should only be one !>
        self.state = <choice.loopBackStateNumber>
        self._errHandler.sync(self)
        _alt = self._interp.adaptivePredict(self._input, choice.decision, self._ctx)
    >>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_al = 1:<if(!choice.ast.greedy)>+1<endif>
while _al!=<choice.exitAlt> and _al!=ATN.INVALID_ALT_NUMBER:
    <alts:{alt|
    if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    } separator="\n">
    else:
        <error>
        self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
        self._errHandler.sync(self)
        _alt = self._interp.adaptivePredict(self._input, choice.decision, self._ctx)
    >>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif}>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
    ((<shiftAmount>) & ~0x3f) == 0
>>
// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \&< <offsetShiftVar(s.varName, bits.shift)>) \& (<bits.ttypes:{ttype | (1 \&< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", "]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> = }
|><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \leq 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l | <labelref(l)> = }><else>    self._errHandler.recoverInline(self)
else:
    self.consume()
>>

Wildcard(w) ::= <<
    self.state = <w.stateNumber>
    <if(w.labels)<w.labels:{l | <labelref(l)> = }><endif>
    self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
    self.state = <p.stateNumber>
    if not <chunks>:
        from antlr4.error.Errors import FailedPredicateException
        raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
            <p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
    catch (<catchArg>) {
        <catchAction>
    }
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg) ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"
TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type())"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else self._input.getText((<ctx(r)>.<r.label>.start, <ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>",
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType>() type"
TokenListDecl(t) ::= "self.<t.name> = list() of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>",
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>, i)

// should never be called
ContextRuleListGetDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

ContextRuleRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>, i)

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
  * r becomes rContext.
  */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>
ImplicitRuleLabel(ruleName) ::= "_<ruleName>
ImplicitSetLabel(id) ::= "_tset<id>
ListLabelName(label) ::= "<label>

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"
StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers, superClass={ParserRuleContext}) ::= <<
class <struct.name>(<superClass>):

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
        super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n"> 
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">  
        <getters:{g | <g>}; separator="\n"/>

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

    <if(struct.provideCopyFrom)> <! don’t need copy unless we have subclasses !>
        def copyFrom(self, ctx):
            super(<parser.name>.<struct.name>, self).copyFrom(ctx)
            <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">  
        <endif>

    <dispatchMethods; separator="\n"> 
    <extensionMembers; separator="\n"> 
>>

AltLabelStructDecl(struct, attrs, getters, dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx): # actually a <currentRule.name; format="cap">Context
        super(<parser.name>.<struct.name>, self).__init__(parser)
        <attrs:{a | <a>}; separator="\n">  
        self.copyFrom(ctx)

        <getters:{g | <g>}; separator="\n">  

    <dispatchMethods; separator="\n"> 
    <extensionMembers; separator="\n"> 
>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif>"<struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>
VisitorDispatchMethod(method) ::= 「
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):  
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

 AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

 /** If we don't know location of label def x, use this template */
 labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

 /** For any action chunk, what is correctly-typed context struct ptr? */
 ctx(actionChunk) ::= "localctx"

 // used for left-recursive rules
 recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"  
 recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"  
 recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

 recRuleAltStartAction(ruleName, ctxName, label) ::= 「
    localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
    <if(label)>localctx.<label> = _prevctx<endif>
    self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
」

 recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= 「
    localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
        format="cap">Context(self, _parentctx, _parentState))
    <if(label)>
        <if(isListLabel)>
        localctx.<label>.append(_prevctx)
        </if>
    <else>
        localctx.<label> = _prevctx
    </else>
    self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
」

 recRuleReplaceContext(ctxName) ::= 「
    localctx = <parser.name>.<ctxName>Context(self, localctx)
    self._ctx = localctx
    _prevctx = localctx
」
recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<atn>
class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):
    atn = ATNDeserializer().deserialize(serializedATN())
    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]
    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">    <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
    modeNames = [ <lexer.modes:{m| u"<m>"}; separator="\n", wrap, anchor> ]
    literalNames = [ u"\"INVALID\"",
        <lexer.literalNames:{t | u"<t>"}; separator="\", wrap, anchor> ]
    symbolicNames = [ u"\"INVALID\"",
        <lexer.symbolicNames:{t | u"<t>"}; separator="\", wrap, anchor> ]
    ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator="\", wrap, anchor> ]
    grammarFileName = u"<lexer.grammarFileName>"
    def __init__(self, input=None):
        super(<lexer.name>, self).__init__(input)
        self.checkVersion("<lexerFile.ANTLRVersion>")
    
    def __init__(self, input=None):
        super(<lexer.name>, self).__init__(input)
        self.checkVersion("<lexerFile.ANTLRVersion>")

Open Source Used In Tetration 3.5.1 7616
self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
self._actions = None
self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={"\n            buf.write(u"}>
        buf.write(u"}>")
    return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/parse/ANTLRParser.java
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 */
// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grammars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'
//    vs: "You cannot specify two options{ } sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *    A3Parser.g
 *    A3Verify.g (derived from A3Walker.g)
 *
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)
 * Temporal Wave LLC
lexer grammar ANTLRLexer;

// ==============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ==============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
// options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
// language      = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
///superclass    = AbstractA3Lexer;
//}

tokens { SEMDPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
//@lexer::header {
/*
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*/

package org.antlr.v4.parse;
import org.antlr.v4.tool.*;

@members {
  public static final int COMMENTS_CHANNEL = 2;

  public CommonTokenStream tokens; // track stream we push to; need for context info
  public boolean isLexerRule = false;

  public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

  /** scan backwards from current point in this.tokens list
   * looking for the start of the rule or subrule.
   * Return token or null if for some reason we can't find the start.
   */

  public Token getRuleOrSubruleStartToken() {
    if ( tokens==null ) return null;
    int i = tokens.index();
    int n = tokens.size();
    if ( i>=n ) i = n-1; // seems index == n as we lex
    while ( i>=0 && i<n ) {
      int ttype = tokens.get(i).getType();
      if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
        return tokens.get(i);
      }
      i--;
    }
  }
}
return null;
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : :
COMMENT
@init {
  // Record the start line and offsets as if we need to report an
  // unterminated comment, then we want to show the start of the comment
  // we think is broken, not the end, where people will have to try and work
  // it out themselves.
  //
  int startLine = $line;
  int offset    = getCharPositionInLine();
}

: // Eat the first character only, then see if we have a comment
  // or something silly.
  //
  '/' // Comment introducer

(
  // Single line comment, possibly with embedded src/line directives
  // in a similar style to the C pre-processor, allowing generated
  // code to refer the programmer back to the original source code
  // in case of error.
  //
  '/'
  |
  (  (' $ANTLR') => ' $ANTLR' SRC
     |  ~(NLCHARS)*
  )

  | // Multi-line comment, which may be a documentation comment
  // if it starts /** (note that we protect against accidental)
  // recognizing a comment /**/ as a documentation comment
// */ (  
{ input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }  
| { true }?=> // Required to cover all alts with predicates

// Should we support embedded multiline comments here?  
//   
// (  
// Pick out end of multiline comment and exit the loop  
// if we find it.  
//   
// { !(input.LA(1) == '*' && input.LA(2) == '/') }?

// Anything else other than the non-greedy match of  
// the comment close sequence  
//

// Look for the comment terminator, but if it is accidentally  
// unterminated, then we will hit EOF, which will trigger the  
// epsilon alt and hence we can issue an error message relative  
// to the start of the unterminated multi-line comment  
// */

| // Unterminated comment!  
| //
| {  
| // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,  
| offset, $pos, (Object)null);
| }

| // There was nothing that made sense following the opening '/' and so  
| // we issue an error regarding the malformed comment  
| //
| {  
| // TODO: Insert error message relative to comment start  
| //
| }

|}

| // We do not wish to pass the comments in to the parser. If you are  
| // writing a formatter then you will want to preserve the comments off  
| // channel, but could just skip and save token space if not.
//
$channel=COMMENTS_CHANNEL;
}
;

ARG_OR_CHARSET
options {k=1;}
: {isLexerRule}!*=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {'isLexerRule}!*=> ARG_ACTION
{| $type=ARG_ACTION;
// Set the token text to our gathered string minus outer [ ]
String t = Stext;
t = t.substring(1,t.length()-1);
setText(t);
};
;

fragment
LEXER_CHAR_SET
: |'
\n|(~(\r|\n))
[^(~(\r|\n)[\n\r])]*
' |
';

// --------------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
// fragment
ARG_ACTION
: |'

    ARG_ACTION

    |
    (\")=>ACTION_STRING_LITERAL

    |
    (\'')=>ACTION_CHAR_LITERAL

    |
    \n    )*

    '|
// Actions

// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by { }) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.

ACTION
:NESTED_ACTION
('?' {$type = SEMPRED;}((WSNLCHARS* '=>' => WSNLCHARS* '=>' // v3 gated sempred
{Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
gr...
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {
  //
  '{'
  (  // And now we can match one of a number of embedded
   // elements within the action until we find a
   // } that balances the opening {. If we do not find
   // the balanced } then we will hit EOF and can issue
   // an error message about the brace that we believe to
   // be mismatched. This won't be foolproof but we will
   // be able to at least report an error against the
   // opening brace that we feel is in error and this will
   // guide the user to the correction as best we can.
   //
   // An embedded {} block
  //
  NESTED_ACTION

| // What appears to be a literal
| //
| ACTION_CHAR_LITERAL

| // We have assumed that the target language has C/Java
| // type comments.
| //
| COMMENT

| // What appears to be a literal
| //
| ACTION_STRING_LITERAL

| // What appears to be an escape sequence
| //
| ACTION_ESC

| // Some other single character that is not
| // handled above
| //
| ~(\"'|\'|/|\{}|\})`
)


(  // Correctly balanced closing brace  
   //  
   '}' 
  
  // Looks like have an imblanced { } block, report 
  // with respect to the opening brace. 
  // 
  {  
   // TODO: Report imbalanced { }  
   System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced { or is missing a ");  
  }  
} ;  

// Keywords  
// --------  
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as 
// labels for rules or in any other context where they would be ambiguous 
// with the keyword vs some other identifier  
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures 
// their option block, as this is the easiest way to parse it separate 
// to an ACTION block, despite it using the same { } delimiters. 
// 
// OPTIONS : 'options' WSNLCHARS* '{' ;  
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;  
CHANNELS : 'channels' WSNLCHARS* '{' ;  
IMPORT : 'import' ;  
FRAGMENT : 'fragment' ;  
LEXER : 'lexer' ;  
PARSER : 'parser' ;  
GRAMMAR : 'grammar' ;  
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;  
PROTECTED : 'protected' ;  
PUBLIC : 'public' ;  
PRIVATE : 'private' ;  
RETURNS : 'returns' ;  
LOCALS : 'locals' ;  
THROWS : 'throws' ;  
CATCH : 'catch' ;  
FINALLY : 'finally' ;  
MODE : 'mode' ;  

// --------  
// Punctuation
// Character sequences used as separators, delimiters, operators, etc

//

COLON : ':'
{
    // scan backwards, looking for a RULE_REF or TOKEN_REF.
    // which would indicate the start of a rule definition.
    // If we see a LPAREN, then it's the start of the subrule.
    // this.tokens is the token string we are pushing into, so
    // just loop backwards looking for a rule definition. Then
    // we set isLexerRule.
    Token t = getRuleOrSubruleStartToken();
    if ( t!=null ) {
        if ( t.getType()==RULE_REF ) isLexerRule = false;
        else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
        // else must be subrule; don't alter context
    }
}

COLONCOLON : '::'

COMMA : ', '

SEMI : '; '

LPAREN : '('

RPAREN : ') '

RARROW : '->'

LT : '<'

GT : '>

ASSIGN : '='

QUESTION : '?'

SYNPRED : '=>'
{
    Token t = new CommonToken(input, state.type, state.channel,
                             state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}

STAR : '*'

PLUS : '+'

PLUS_ASSIGN : '+='

OR : '|'

DOLLAR : '$'

DOT : '.'
    // can be WILDCARD or DOT in qid or imported rule ref

RANGE : '..'

AT : '@'
POUND : '#';
NOT : '~';
RBRACE : ')]';

/** Allow unicode rule/token names */
ID: a=NameStartChar NameChar*
{
if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
else $type = RULE_REF;
}

fragment
NameChar : NameStartChar
  | '0'..'9'
  | ' ' | '
| 'u00B7'
| 'u0300'..'u036F'
| 'u203F'..'u2040'
;

fragment
NameStartChar
  : 'A'..'Z' | 'a'..'z'
  | 'u00C0'..'u00D6'
  | 'u00D8'..'u00F6'
  | 'u00F8'..'u02FF'
  | 'u0370'..'u037D'
  | 'u037F'..'u1FFF'
  | 'u200C'..'u200D'
  | 'u2070'..'u218F'
  | 'u2C00'..'u2FEF'
  | 'u3001'..'uD7FF'
  | 'uf900'..'ufDCF'
  | 'ufDF0'..'ufFEFE'
  | 'ufF00'..'ufFFFF'
  : // ignores | [\u10000-\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ` delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//
// Within actions, or other structures that are not part of the ANTLR syntax, we may encounter literal characters. Within these, we do not want to inadvertently match things like ‘}’ and so we eat them specifically. While this rule is called CHAR it allows for the fact that some languages may use/allow ’ as the string delimiter.
//
fragment ACTION_CHAR_LITERAL :
:\" " ((\")=>ACTION_ESC | ~\")* \"
;

// Within actions, or other structures that are not part of the ANTLR syntax, we may encounter literal strings. Within these, we do not want to inadvertently match things like ‘}’ and so we eat them specifically.
//
fragment ACTION_STRING_LITERAL :
:\"" ((\")=>ACTION_ESC | ~\")* \"
;

// Within literal strings and characters that are not part of the ANTLR syntax, we must allow for escaped character sequences so that we do not inadvertently recognize the end of a string or character when the terminating delimiter has been esacped.
//
fragment ACTION_ESC :
:\\ .
;

// -----
// Integer
//
// Obviously (I hope) match an arbirtrary long sequence of digits.
//
INT : ('0'..'9')+
;

// --------
// Source spec
//
// A fragment rule for picking up information about an originating file from which the grammar we are parsing has been generated. This allows ANTLR to report errors against the originating file and not the generated file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{
    // TODO: Add target specific code to change the source file name and current line number
    //

};

// --------------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
    : "" ( ( ESC_SEQ | ~('\\'|'"') ) )*
      ( 
      | // Unterminated string literal
        { Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
          t.setLine(state.tokenStartLine);
          t.setText(state.text);
          t.setCharPositionInLine(state.tokenStartCharPositionInLine);
          grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
        }
      )
    ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
    : "\"
      ( 
        // The standard escaped character set such as tab, newline,
        // etc.
        //
        '\b'|'\t'|'\n'|'\f'|'\r'|'"'|'\''
      )
      | // A Java style Unicode escape sequence
        //
UNICODE_ESC

| // An illegal escape sequence
| //
| {
|   Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
|   t.setText(t.getText());
|   t.setLine(input.getLine());
|   t.setCharPositionInLine(input.getCharPositionInLine()-1);
|   grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
| }
| ;

fragment UNICODE_ESC

@init {

// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
inthCount = 0;
}

: 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
{

HEX_DIGIT { hCount++; }

( HEX_DIGIT { hCount++; }

( HEX_DIGIT { hCount++; }

// Four valid hex digits, we are good
//
HEX_DIGIT { hCount++; }

| // Three valid digits
)

| // Two valid digits
|
|
| // One valid digit
|
|
| // No valid hex digits at all
|

// Now check the digit count and issue an error if we need to
//
//
if (hCount != 4) {
    Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
}

;

// --------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
// WS
:
  (  
    ,
    | \t
    | \r
    | \n
  )+
  {$channel=HIDDEN;}
// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : "." | "\t" | "\f"
    ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
  : "." | "\t" | "\f" | "\n" | "\r"
    ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  : '\uFEFF' {skip();}
    ;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
|
   { Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
     t.setLine(state.tokenStartLine);
     t.setText(state.text);
     t.setCharPositionInLine(state.tokenStartCharPositionInLine);
     String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
     grammarError(ErrorType.SYNTAX_ERROR, t, msg);
     state.syntaxErrors++;
   }

skip();

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/parse/ANTLRLexer.g
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* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
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*/

tree grammar ATNBuilder;
options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
    // filter     = true;
}

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@header {
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package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
    this(input);
    this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factorysetCurrentOuterAlt(alt);
}
  ^(BLOCK
    (^OPTIONS .*))?
    ( a=alternative
      {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
  )
  {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
}
  ^(BLOCK (^OPTIONS .*))? (a=alternative {alts.add($a.p);})+
  {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;
alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  ^(LEXER_ALT_ACTION a=alternative lexerCommands)
    {$p = factory.lexerAltCommands(a.p,lexerCommands.p);}
  ^(ALT elementOptions? EPSILON){$p = factory.epsilon($EPSILON);}
  ^(ALT elementOptions? (e=element {els.add($e.p);})+)
    {$p = factory.alt(els);}
;
lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
    {$p = factory.alt(cmds);}
  ;
lexerCommand returns [ATNFactory.Handle cmd]
  ^(LEXER_ACTION_CALL ID lexerCommandExpr)
    {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);};
  ID
    {$cmd = factory.lexerCommand($ID);}
;
lexerCommandExpr
  : ID
  INT
;
element returns [ATNFactory.Handle p]
  : labeledElement{$p = $labeledElement.p;}
  atom{$p = $atom.p;}
  subrule{$p = $subrule.p;}
  ACTION{$p = factory.action((ActionAST)$ACTION);}
  SEMPREDD{$p = factory.sempred((PredAST)$SEMPRED);}
  ^(ACTION .){$p = factory.action((ActionAST)$ACTION);}
  ^(SEMPRED .){$p = factory.sempred((PredAST)$SEMPRED);}
  ^(NOT b=blockSet[true]){$p = $b.p;}
  [LEXER_CHAR_SET}{$p = factory.charSetLiteral($start);}
;
astOperand returns [ATNFactory.Handle p]
  : atom{$p = $atom.p;}
  ^(NOT blockSet[true]){$p = $blockSet.p;}
;
labeledElement returns [ATNFactory.Handle p]
  ^(ASSIGN ID element) {$p = factory.label($element.p);}
  ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
subrule returns [ATNFactory.Handle p]
  :^(OPTIONAL block[$start]){$p = $block.p;}
  |^(CLOSURE block[$start]){$p = $block.p;}
  |^(POSITIVE_CLOSURE block[$start]){$p = $block.p;}
  | block[null] {$p = $block.p;}

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
  :^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}

/** Don't combine with atom otherwise it will build spurious ATN nodes */
selitelement
  :^(STRING_LITERAL .)
  |^(TOKEN_REF .)
  |STRING_LITERAL
  |TOKEN_REF
  |^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
    | LEXER_CHAR_SET

atom returns [ATNFactory.Handle p]
:range {$p = $range.p;}
  |^(DOT ID terminal) {$p = $terminal.p;}
  |^(DOT ID ruleref) {$p = $ruleref.p;}
  |^(WILDCARD .) {$p = factory.wildcard($start);}
  |WILDCARD {$p = factory.wildcard($start);}
  | blockSet[false] {$p = $blockSet.p;}
  | terminal {$p = $terminal.p;}
  | ruleref {$p = $ruleref.p;}

ruleref returns [ATNFactory.Handle p]
  :^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)){$p = factory.ruleRef($RULE_REF);}
  |^(RULE_REF ARG_ACTION?){$p = factory.ruleRef($RULE_REF);}
  |RULE_REF{$p = factory.ruleRef($RULE_REF);}

range returns [ATNFactory.Handle p]
  :^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}

terminal returns [ATNFactory.Handle p]
  :^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
  |STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
\[(\text{TOKEN\_REF ARG\_ACTION } )\{ \text{p = factory.tokenRef(TerminalAST)$start);} \}
\]

\[(\text{TOKEN\_REF .})\{ \text{p = factory.tokenRef(TerminalAST)$start);} \}
\]

\[(\text{TOKEN\_REF} )\{ \text{p = factory.tokenRef(TerminalAST)$start);} \}
\]

; 

\begin{verbatim}
elementOptions 
:^(ELEMENT\_OPTIONS elementOption*) 
;

elementOption
:ID 
|^\text{ASSIGN ID ID}
|^\text{ASSIGN ID STRING\_LITERAL}
|^\text{ASSIGN ID ACTION}
|^\text{ASSIGN ID INT}
;
\end{verbatim}

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 */

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
 * dependencies and generated files. in and out
 * are File objects. For example, you can say
 * <in:grammarFile>::=
 */
dependencies(grammarFile, in, out) ::= <<
   <if(in)> <grammarFile> : <in; separator=", "> <endif>
   <out:{f | <f> : <grammarFile> }; separator="\n"> >>

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* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources.jar/antlr/v4/tool/templates/depend.stg
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* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/parse/GrammarToken.java

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atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
  rankdir=LR;
  <decisionRanks; separator="\n">
  <states; separator="\n">
  <edges; separator="\n">
}
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
  <if(rankdir)>rankdir=<rankdir>;<endif>
  <decisionRanks; separator="\n">
  <states; separator="\n">
  <edges; separator="\n">
}
>>

decision-rank(states) ::= <<
  {rank=same; rankdir=TB; <states:{s | s<s>}; separator=" ">}
>>

dge(src,target,label,arrowhead,transitionIndex) ::= <<
  <src><if(transitionIndex)>:p<transitionIndex> </if> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
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* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/Target.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/tool/ANTLRToolListener.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/DispatchMethod.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/CodeGeneratorExtension.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/LexerFactory.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/tool/ErrorManager.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/OutputModelController.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/BlankOutputModelFactory.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/BaseVisitorFile.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/Lexer.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/TokenTypeDecl.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/chunk/TokenRef.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/Decl.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/thisRulePropertyRef.java
* /opt/cola/permits/1110777897_1606852443.38/antlr4-4-5-1-sources-jar/antlr/v4/codegen/model/Chunk.java
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jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java

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/** How to generate rules derived from left-recursive rules.
 * These rely on recRuleAltPredicate(),
 * recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
 * templates in main language.stg
 */

group LeftRecursiveRules;
recRule(ruleName, argName, primaryAlts, opAlts, setResultAction, 
   userRetvals, leftRecursiveRuleRefLabels) ::= 
   <<
   <ruleName> <if(userRetvals)> returns [ <userRetvals> ] <endif> 
   : ( {} <primaryAlts: [alt | <alt.altText> ]; separator="\n | ") 
   ( <opAlts; separator="\n | ")*
   ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
   [ <pred> ]? <<precOption>=<opPrec>> <alt.altText>
>>

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
No license file was found, but licenses were detected in source scan.

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/**
 * The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
 * Parses trees created by ANTLRParser.g.
 *
 * Rather than have multiple tree grammars, one for each visit, I'm
 * creating this generic visitor that knows about context. All of the
 * boilerplate pattern recognition is done here. Then, subclasses can
 * override the methods they care about. This prevents a lot of the same
 * context tracking stuff like "set current alternative for current
 * rule node" that is repeated in lots of tree filters.
 */

tree grammar GrammarTreeVisitor;
options {
    language      = Java;
    tokenVocab    = ANTLRParser;
    ASTLabelType  = GrammarAST;
}

//@header {
/*
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package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;

public GrammarTreeVisitor() { this(null); }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    } catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
            " or tree structure error: "+t.toStringTree() +
            );
            e.printStackTrace(System.err);
        } else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}
public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }
public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }

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protected void exitPrequelConstructs(GrammarAST tree) {} 
protected void enterPrequelConstructs(GrammarAST tree) {} 
protected void exitPrequelConstruct(GrammarAST tree) {} 
protected void enterPrequelConstruct(GrammarAST tree) {} 

protected void enterOptionsSpec(GrammarAST tree) {} 
protected void exitOptionsSpec(GrammarAST tree) {} 

protected void enterOption(GrammarAST tree) {} 
protected void exitOption(GrammarAST tree) {} 

protected void enterOptionValue(GrammarAST tree) {} 
protected void exitOptionValue(GrammarAST tree) {} 

protected void enterDelegateGrammars(GrammarAST tree) {} 
protected void exitDelegateGrammars(GrammarAST tree) {} 

protected void enterDelegateGrammar(GrammarAST tree) {} 
protected void exitDelegateGrammar(GrammarAST tree) {} 

protected void enterTokensSpec(GrammarAST tree) {} 
protected void exitTokensSpec(GrammarAST tree) {} 

protected void enterTokenSpec(GrammarAST tree) {} 
protected void exitTokenSpec(GrammarAST tree) {} 

protected void enterChannelsSpec(GrammarAST tree) {} 
protected void exitChannelsSpec(GrammarAST tree) {} 

protected void enterChannelSpec(GrammarAST tree) {} 
protected void exitChannelSpec(GrammarAST tree) {} 

protected void enterAction(GrammarAST tree) {} 
protected void exitAction(GrammarAST tree) {} 

protected void enterRules(GrammarAST tree) {} 
protected void exitRules(GrammarAST tree) {} 

protected void enterMode(GrammarAST tree) {} 
protected void exitMode(GrammarAST tree) {} 

protected void enterLexerRule(GrammarAST tree) {} 
protected void exitLexerRule(GrammarAST tree) {} 

protected void enterRule(GrammarAST tree) {} 
protected void exitRule(GrammarAST tree) {} 

protected void enterExceptionGroup(GrammarAST tree) {}
protected void exitExceptionGroup(GrammarAST tree) { }
protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }
protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }
protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }
protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }
protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }
protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }
protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }
protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }
protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }
protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }
protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }
protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }
protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }
protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }
protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }
protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }
protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }
protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }
protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }
protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }
protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }
protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }
protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }
protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }
protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }
protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }
protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }
protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }
protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }
protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }
protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex)  {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex)  {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}

grammarSpec
@init {
    enterGrammarSpec($start);
    @after {
        exitGrammarSpec($start);
    }
    ^{GRAMMAR ID {grammarName=$ID.text;
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    : ;
    }
}

prequelConstructs returns [GrammarAST firstOne=null]
@init {
    enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
:{firstOne=$start;} prequelConstruct+
|
|
prequelConstruct
@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: optionsSpec
  | delegateGrammars
  | tokensSpec
  | channelsSpec
  | action
  ;

optionsSpec
@init {
  enterOptionsSpec($start);
}
@after {
  exitOptionsSpec($start);
}
:^((OPTIONS option*)
  ;

option
@init {
  enterOption($start);
  boolean rule = inContext("RULE ...");
  boolean block = inContext("BLOCK ...");
}
@after {
  exitOption($start);
}
:^((a=ASSIGN ID v=optionValue)
  |
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```plaintext
optionValue returns [String v]
  @init {
  enterOptionValue($start);
  $v = $start.token.getText();
  }
  @after {
  exitOptionValue($start);
  }
  : ID
  | STRING_LITERAL
  | INT
  :

delegateGrammars
  @init {
  enterDelegateGrammars($start);
  }
  @after {
  exitDelegateGrammars($start);
  }
  : ^(IMPORT delegateGrammar+)
  :

delegateGrammar
  @init {
  enterDelegateGrammar($start);
  }
  @after {
  exitDelegateGrammar($start);
  }
  : ^(ASSIGN label=ID id=ID){importGrammar($label, $id);}
  | id=ID{importGrammar(null, $id);}
  :

tokensSpec
  @init {
  enterTokensSpec($start);
  }
  @after {
  exitTokensSpec($start);
  }
  : ^(TOKENS_SPEC tokenSpec+)
  :

tokenSpec
  @init {
  enterTokenSpec($start);
  }
```
@after {
  exitTokenSpec($start);
}
:ID{defineToken($ID);}
;

channelsSpec
@init {
  enterChannelsSpec($start);
}
@after {
  exitChannelsSpec($start);
}
:^{CHANNELS channelSpec+}
;

channelSpec
@init {
  enterChannelSpec($start);
}
@after {
  exitChannelSpec($start);
}
:ID{defineChannel($ID);}
;

action
@init {
  enterAction($start);
}
@after {
  exitAction($start);
}
:^{AT sc=ID? name=ID ACTION} {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
  enterRules($start);
}
@after {
  exitRules($start);
}
:^{RULES {discoverRules($RULES);} (rule|lexerRule)* [finishRules($RULES);]}
;

mode
@init {
enterMode($start);
}
@after {
exitMode($start);
}
:^{\text{ MODE ID \{currentModeName=$ID.text; modeDef($MODE, $ID);\} lexerRule* }}
;

lexerRule
@init {
enterLexerRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
currentOuterAltNumber=0;
}
@after {
exitLexerRule($start);
}
:^{\text{ RULE TOKEN_REF \{currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;\}}
(\^\text{RULEMODIFIERS m=\text{FRAGMENT \{mods.add($m);\}}})\?
\{discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));\}
lexerRuleBlock
{finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
currentRuleName=null; currentRuleAST=null;
}
);

rule
@init {
enterRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
currentOuterAltNumber=0;
}
@after {
exitRule($start);
}
:^{\text{ RULE RULE_REF \{currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;\}}
(\^\text{RULEMODIFIERS m=\text{ruleModifier{mods.add($m.start);}}})\?
ARG_ACTION?\text{\{ret=ruleReturns?\} thr=throwsSpec?\text{\{loc=locals?\} (opts=optionsSpec}\text{\{|a=ruleAction \{actions.add($a.start);\}\}}}*)
{discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION, $ret.start!=null?(ActionAST)$ret.start.getChild(0):null, $thr.start, $opts.start, $loc.start!=null?(ActionAST)$loc.start.getChild(0):null, actions, (GrammarAST)input.LT(1));}
ruleBlock exceptionGroup
{finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

exceptionGroup
  @init {
  enterExceptionGroup($start);
  }
  @after {
  exitExceptionGroup($start);
  }
  :exceptionHandler* finallyClause?
  ;

exceptionHandler
  @init {
  enterExceptionHandler($start);
  }
  @after {
  exitExceptionHandler($start);
  }
  : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
  ;

finallyClause
  @init {
  enterFinallyClause($start);
  }
  @after {
  exitFinallyClause($start);
  }
  : ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
  ;

locals
  @init {
  enterLocals($start);
  }
  @after {
  exitLocals($start);
  }
  : ^(LOCALS ARG_ACTION)
ruleReturns
@init {
enterRuleReturns($start);
}
@after {
exitRuleReturns($start);
}
:^\(\text{RETURNS ARG\_ACTION}\)
;

throwsSpec
@init {
enterThrowsSpec($start);
}
@after {
exitThrowsSpec($start);
}
:^\(\text{THROWS ID}\+)
;

ruleAction
@init {
enterRuleAction($start);
}
@after {
exitRuleAction($start);
}
:^\(\text{AT ID ACTION}\)
;

ruleModifier
@init {
enterRuleModifier($start);
}
@after {
exitRuleModifier($start);
}
:^\("\text{PUBLIC}"
| \"PRIVATE"
| \"PROTECTED"
| \"FRAGMENT"
;

lexerRuleBlock
@init {
enterLexerRuleBlock($start);
}
@after {
exitLexerRuleBlock($start);
}
:^{BLOCK
(\{ currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++;
}\) lexerOuterAlternative
)+
)
;

ruleBlock
@init {
enterRuleBlock($start);
}@after {
exitRuleBlock($start);
}
:^{BLOCK
(\{ currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++;
}\) outerAlternative
)+
)
;

lexerOuterAlternative
@init {
enterLexerOuterAlternative((AltAST)$start);
discoverOuterAlt((AltAST)$start);
}@after {
finishOuterAlt((AltAST)$start);
exitLexerOuterAlternative((AltAST)$start);
}
:lexerAlternative
;

outerAlternative
@init {
enterOuterAlternative((AltAST)$start);
discoverOuterAlt((AltAST)$start);
}
enterLabeledLexerElement($start);
}
@after {
exitLabeledLexerElement($start);
}
:^((ASSIGN|PLUS.Assign) ID (lexerAtom|block))

lexerBlock
@init {
enterLexerBlock($start);
}
@after {
exitLexerBlock($start);
}
:^((BLOCK optionsSpec? lexerAlternative+))

lexerAtom
@init {
enterLexerAtom($start);
}
@after {
exitLexerAtom($start);
}
:
terminal
| ^((NOT blockSet)
| blockSet
| ^((WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;

actionElement
@init {
enterActionElement($start);
}
@after {
exitActionElement($start);
}
:ACTION
| ^((ACTION elementOptions)
| SEMPRED
| ^((SEMPRED elementOptions)
;
alternative
@init {
enterAlternative((AltAST)$start);
discoverAlt((AltAST)$start);
}
@after {
finishAlt((AltAST)$start);
exitAlternative((AltAST)$start);
}
:^((ALT elementOptions? element+)
|^((ALT elementOptions? EPSILON)

lexerCommand
@init {
enterLexerCommand($start);
}
@after {
exitLexerCommand($start);
}
:^((LEXER_ACTION_CALL ID lexerCommandExpr)
   {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
|ID
   {lexerCommand(currentOuterAltNumber, $ID);}

lexerCommandExpr
@init {
enterLexerCommandExpr($start);
}
@after {
exitLexerCommandExpr($start);
}
:^ID
|INT

element
@init {
enterElement($start);
}
@after {
exitElement($start);
}
:^labeledElement
|atom
|subrule
| ACTION{actionInAlt((ActionAST)$ACTION);}
| SEMPRED{sempredInAlt((PredAST)$SEMPRED);} |
| ^{ACTION elementOptions}{actionInAlt((ActionAST)$ACTION);} |
| ^{SEMPRED elementOptions}{sempredInAlt((PredAST)$SEMPRED);} |

|^(NOT blockSet) |
|^(NOT block) ; |

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
:atom
|^(NOT blockSet) |
|^(NOT block) ; |

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
:^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);} |
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
:^{(blockSuffix block) |
| block ; |

lexerSubrule
@init {
enterLexerSubrule($start);
}
@after {
exitLexerSubrule($start);
}
:(blockSuffix lexerBlock)
| lexerBlock

;

blockSuffix
@init {
enterBlockSuffix($start);
}
@after {
exitBlockSuffix($start);
}
: ebnfSuffix

;

ebnfSuffix
@init {
enterEbnfSuffix($start);
}
@after {
exitEbnfSuffix($start);
}
:OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE

;

atom
@init {
enterAtom($start);
}
@after {
exitAtom($start);
}
:(DOT ID terminal)
|^(DOT ID ruleref)
|^(WILD CARD elementOptions){wildcardRef($WILD CARD);}
| WILD CARD{wildcardRef($WILD CARD);}
| terminal
| blockSet
| ruleref

;

blockSet
@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
```plaintext
(set setElement+)

setElement
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}

^(STRING_LITERAL elementOptions) {stringRef($(TerminalAST)$STRING_LITERAL);}
|^TOKEN_REF elementOptions) {tokenRef($(TerminalAST)$TOKEN_REF);}
|STRING_LITERAL {stringRef($(TerminalAST)$STRING_LITERAL);}
|^TOKEN_REF {tokenRef($(TerminalAST)$TOKEN_REF);}
|^RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
stringRef($(TerminalAST)$a);
stringRef($(TerminalAST)$b);
|
LEXER_CHAR_SET

block
@init {
enterBlock($start);
}
@after {
exitBlock($start);
}

^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)

ruleref
@init {
enterRuleref($start);
}
@after {
exitRuleref($start);
}

^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}

range
```
@init {
enterRange($start);
}

@after {
exitRange($start);
}

@init {
enterTerminal($start);
}

@after {
exitTerminal($start);
}

@init {
enterElementOptions($start);
}

@after {
exitElementOptions($start);
}

@init {
enterElementOption($start);
}

@after {
exitElementOption($start);
}

@init {
enterRange($start);

@after {
exitRange($start);

@init {
enterTerminal($start);

@after {
exitTerminal($start);

@init {
enterElementOptions($start);

@after {
exitElementOptions($start);

@init {
enterElementOption($start);

@after {
exitElementOption($start);

@init {
enterRange($start);

@after {
exitRange($start);

@init {
enterTerminal($start);

@after {
exitTerminal($start);

@init {
enterElementOptions($start);

@after {
exitElementOptions($start);

@init {
enterElementOption($start);

@after {
exitElementOption($start);

: ^(RANGE STRING_LITERAL STRING_LITERAL)

; terminal

: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
  [STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
  [^TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
  [TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}

; elementOptions

: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
  [STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
  [^TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
  [TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}

; elementOption[GrammarASTWithOptions t]

@init {
enterElementOption($start);

@after {
exitElementOption($start);

@init {
enterRange($start);

@after {
exitRange($start);

@init {
enterTerminal($start);

@after {
exitTerminal($start);

@init {
enterElementOptions($start);

@after {
exitElementOptions($start);

@init {
enterElementOption($start);

@after {
exitElementOption($start);

: ^ID{elementOption(t, $ID, null);}
  | ^ASSIGN id=ID v=ID{elementOption(t, $id, $v);}
  | ^ASSIGN ID v=STRING_LITERAL{elementOption(t, $ID, $v);}
  | ^ASSIGN ID v=ACTION{elementOption(t, $ID, $v);}
  | ^ASSIGN ID v=INT{elementOption(t, $ID, $v);}

;
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
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 */

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* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/codegen/target/CSharpTarget.java
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This file contains the format that mimicks GCC output.

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
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* /opt/cola/permits/1110777897_1606852443.38/0/antlr4-4-5-1-sources-jar/org/antlr/v4/parse/ANTLRParser.g

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org.ow2.asm:asm-commons  
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org.apache.taglibs:taglibs-standard-impl  

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.725 harfbuzz 1.7.5 2.el7

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1.726 libwebp 0.3.0 3.el7

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--- end of FTL.TXT ---

# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT` matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./`).
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcf.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/inf.c
src/gzip/infutil.c
src/gzip/inf.c
src/gzip/infutil.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/inftrees.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

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1.730 grizzly-http-servlet 2.1.2

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1.731 antlr-runtime 4.7.2

1.732 python-stdlib-extensions 3.4.3
1~14.04.2

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Python License

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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1.733 python-ntplib 0.3.3-1_tet.el6
1.733.1 Available under license:
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from distutils.core import setup

long_description = ""
ntplib - Python NTP library
===========================

Description
-----------

This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode,
leap indicator...). Since it's pure Python, and only depends on core modules, it
should work on any platform with a Python implementation.

Example
-------

>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66

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

As root:

    # python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g.

    '/usr/lib/python2.5/'.

setup(name='ntplib',
    version='0.3.3',
    description='Python NTP library',
    author='Charles-Francois Natali',
    author_email='cf.natali@gmail.com',
    url='http://code.google.com/p/ntplib/',
    py_modules=['ntplib'],
    license='MIT',
    classifiers=[
        'License :: OSI Approved :: MIT License',
        'Programming Language :: Python',
        'Operating System :: OS Independent',
        'Topic :: System :: Networking :: Time Synchronization'
    ],
    long_description=long_description
)

Found in path(s):
* /opt/cola/permits/1135382963_1613512816.23/0/python-ntplib-0.3.3-3.zip/python-ntplib-0.3.3/setup.py
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version 0.3.3 - 2015-07-27
--------------------------
- Change to more permissive MIT license

version 0.3.2 - 2014-02-02
--------------------------
- PEP8 cleanup
- Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
--------------------------
- cleanup
- update FSF address

version 0.3.0 - 2012-09-01
--------------------------
- add a `timeout` parameter to NTPClient.request()
- rewrite tests using the unittest module, add many tests
- cleanup

version 0.2.0 - 2012-04-01
--------------------------
- cleanup
- raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20
--------------------------
- change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24
--------------------------
- cleanup
- fix delay computation (thanks to Michael FrĂ¨re for pointing that out)

version 0.1.6 - 2009-11-01
--------------------------
- cleanup
- when the server doesn't respond within a reasonable interval, let the
application handle socket.timeout

version 0.1.5 - 2009-07-13
--------------------------
- perform stricter source check upon reception of a response
- small cleanup

version 0.1.4 - 2009-06-04
--------------------------
- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18
--------------------------
- fix root delay and root dispersion computation

version 0.1.2 - 2009-05-17
--------------------------
- create request packet after name resolution to avoid name resolution delay

version 0.1.1 - 2009-05-16
--------------------------
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a
  NTPException instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request
to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
--------------------------
- initial release

Found in path(s):
* /opt/cola/permits/1135382963_1613512816.23/0/python-ntplib-0-3-3-zip/python-ntplib-0.3.3/CHANGELOG

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Metadata-Version: 1.1
Name: ntplib
Version: 0.3.3
Summary: Python NTP library
Home-page: http://code.google.com/p/ntplib/
Author: Charles-Francois Natali
Author-email: cf.natali@gmail.com
License: MIT
Description:
  ntplib - Python NTP library
  =============================
This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it's pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

Example
-------

```python
>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66
```

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

As root::

```bash
# python setup.py install
```

or just copy ntplib.py inside a directory in your sys.path, e.g.

`'/usr/lib/python2.5/'`

Platform: UNKNOWN
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Operating System :: OS Independent
Classifier: Topic :: System :: Networking :: Time Synchronization

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* /opt/cola/permits/1135382963_1613512816.23/0/python-ntplib-0-3-3-zip/python-ntplib-0.3.3/PKG-INFO
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1.735 blktrace 1.0.5 8.el7

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1.736 jline-remote-telnet 3.9.0

1.737 pax 20120606-2+deb7u1

1.737.1 Available under license:

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 * @(#)extern.h 8.2 (Berkeley) 4/18/94
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"SMiROS: src/bin/pax/cpio.1,v 1.33 2012/06/05 19:29:33 tg Exp $
"SOpenBSD: cpio.1,v 1.34 2011/09/03 22:59:08 jmc Exp $
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- - generates in gnroff, \- generates , so .tr it to -
thus use - for hyphens and \- for minus signs and option dashes
- ^ is size-reduced and placed atop in groff, so use \*(TI
- ^ is size-reduced and placed atop in groff, so use \*(ha
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.Dd must come before definition of .Mx, because when called
with -mandoc, it might implement .Mx itself, but we want to
use our own definition. And .Dd must come *first*, always.
" Check which macro package we use, and do other -mdoc setup.
"  
"  
" Implement .Mx (MirBSD)
"  
"- 
"- 

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483586_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/cpio.1
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@(#)cpio.h 8.1 (Berkeley) 5/31/93
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  20120606/gen_subs.c

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```
SMirOS: src/bin/pax/tar.1,v 1.26 2012/06/05 19:29:34 tg Exp $  
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```

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Implement .Dd with the Mdocdate RCS keyword

.Dd must come before definition of .Mx, because when called
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Check which macro package we use, and do other -mdoc setup.

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* @(#)cache.h 8.1 (Berkeley) 5/31/93
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* thus use - for hyphens and \- for minus signs and option dashes
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Check which macro package we use, and do other -mdoc setup.
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* /opt/ws_local/PERMITS_SQL/1068483586_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/sel_subs.c
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/*
 * Plug-compatible replacement for getopt() for parsing tar-like
 * arguments. If the first argument begins with "-", it uses getopt;
 * otherwise, it uses the old rules used by tar, dump, and ps.
 *
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* /opt/ws_local/PERMITS_SQL/1068483586_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/ar.c
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 @(#)pax.h 8.2 (Berkeley) 4/18/94
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1.738 shadow-utils 4.6 5.el7

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Files: node_modules/chmodr/*
node_modules/chownr/*
node_modules/fstream-npm/*
node_modules/init-package-json/node_modules/promzard/*
node_modules/init-package-json/*
node_modules/npmconf/*
node_modules/npm-registry-client/node_modules/couch-login/*
node_modules/npm-registry-client/*
node_modules/read-installed/*
node_modules/uid-number/*
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Comment: promzard license has been added upstream
https://github.com/isaacs/promzard/blob/master/LICENSE

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doc/api/npm-prune.md
doc/api/npm-publish.md
test/tap/false_name.js
test/tap/false_name/index.js
test/tap/false_name/package.json
test/tap/fixtures/underscore-1-3-3.json
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lib/install.js
lib/run-script.js
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node_modules/init-package-json/node_modules/promzard/test/exports.js
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@include define.wd
@include contain.wd

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<title>Copyright &amp;nbsp; Copyright -</title>
</head>

<body>
<h1><a name="index">Copyright</a></h1>
<ul>
<li><a href="#copyright">Copyright</a></li>
<li><a href="#thanks">Thanks</a></li>
</ul>

<a href="@DOC.index@">Home</a>

<h2><a name="copyright">Copyright</a></h2>
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This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on
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1.756 libyaml 0.1.6

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1.757 zlib 1.2.8

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

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

/*

1.758 mavibot 1.0.0-M1
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1.759 patch 2.6-8.el6_9

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1.760 perl-http-cookies 6.01-5.el7

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=head1 NAME

HTTP::Cookies - HTTP cookie jars
use HTTP::Cookies;
$cookie_jar = HTTP::Cookies->new(
    file => "$ENV{'HOME'}/lwp_cookies.dat",
    autosave => 1,
);

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar($cookie_jar);

Or for an empty and temporary cookie jar:

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( {} );

This class is for objects that represent a "cookie jar" -- that is, a
database of all the HTTP cookies that a given LWP::UserAgent object
knows about.

Cookies are a general mechanism which server side connections can use
to both store and retrieve information on the client side of the
connection. For more information about cookies refer to
<URL:http://curl.haxx.se/rfc/cookie_spec.html> and
<URL:http://www.cookiecentral.com/>. This module also implements the
new style cookies described in I<RFC 2965>.
The two variants of cookies are supposed to be able to coexist happily.

Instances of the class I<HTTP::Cookies> are able to store a collection
of Set-Cookie2: and Set-Cookie: headers and are able to use this
information to initialize Cookie-headers in I<HTTP::Request> objects.
The state of a I<HTTP::Cookies> object can be saved in and restored from
files.

The following methods are provided:

The constructor takes hash style parameters. The following
parameters are recognized:

file: name of the file to restore cookies from and save cookies to
autosave: save during destruction (bool)
ignore_discard: save even cookies that are requested to be discarded (bool)
hide_cookie2: do not add Cookie2 header to requests

Future parameters might include (not yet implemented):

max_cookies 300
max_cookies_per_domain 20
max_cookie_size 4096

no_cookies list of domain names that we never return cookies to

=item $cookie_jar->add_cookie_header( $request )

The add_cookie_header() method will set the appropriate Cookie:-header for the I<HTTP::Request> object given as argument. The $request must have a valid url attribute before this method is called.

=item $cookie_jar->extract_cookies( $response )

The extract_cookies() method will look for Set-Cookie: and Set-Cookie2: headers in the I<HTTP::Response> object passed as argument. Any of these headers that are found are used to update the state of the $cookie_jar.

=item $cookie_jar->set_cookie( $version, $key, $val, $path, $domain, $port, $path_spec, $secure, $maxage, $discard, %rest )

The set_cookie() method updates the state of the $cookie_jar. The $key, $val, $domain, Sport and $path arguments are strings. The $path_spec, $secure, $discard arguments are boolean values. The $maxage value is a number indicating number of seconds that this cookie will live. A value <= 0 will delete this cookie. %rest defines various other attributes like "Comment" and "CommentURL".

=item $cookie_jar->save

=item $cookie_jar->save( $file )

This method file saves the state of the $cookie_jar to a file. The state can then be restored later using the load() method. If a filename is not specified we will use the name specified during construction. If the attribute I<ignore_discard> is set, then we will even save cookies that are marked to be discarded.
The default is to save a sequence of "Set-Cookie3" lines. "Set-Cookie3" is a proprietary LWP format, not known to be compatible with any browser. The I<HTTP::Cookies::Netscape> sub-class can be used to save in a format compatible with Netscape.

=item $cookie_jar->load

=item $cookie_jar->load( $file )

This method reads the cookies from the file and adds them to the $cookie_jar. The file must be in the format written by the save() method.

=item $cookie_jar->revert

This method empties the $cookie_jar and re-loads the $cookie_jar from the last save file.

=item $cookie_jar->clear

=item $cookie_jar->clear( $domain )

=item $cookie_jar->clear( $domain, $path )

=item $cookie_jar->clear( $domain, $path, $key )

Invoking this method without arguments will empty the whole $cookie_jar. If given a single argument only cookies belonging to that domain will be removed. If given two arguments, cookies belonging to the specified path within that domain are removed. If given three arguments, then the cookie with the specified key, path and domain is removed.

=item $cookie_jar->clear_temporary_cookies

Discard all temporary cookies. Scans for all cookies in the jar with either no expire field or a true C<discard> flag. To be called when the user agent shuts down according to RFC 2965.

=item $cookie_jar->scan( \&callback )

The argument is a subroutine that will be invoked for each cookie stored in the $cookie_jar. The subroutine will be invoked with the following arguments:

0  version
1  key
2  val
The as_string() method will return the state of the $cookie_jar represented as a sequence of "Set-Cookie3" header lines separated by "\n". If $skip_discardables is TRUE, it will not return lines for cookies with the I<Discard> attribute.

=head1 SEE ALSO
L<HTTP::Cookies::Netscape>, L<HTTP::Cookies::Microsoft>

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NAME
HTTP::Cookies - HTTP cookie jars

SYNOPSIS
use HTTP::Cookies;
$cookie_jar = HTTP::Cookies->new(
    file => "$ENV{'HOME'}/lwp_cookies.dat",
    autosave => 1,
);

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar($cookie_jar);

Or for an empty and temporary cookie jar:

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( {} );

DESCRIPTION
This class is for objects that represent a "cookie jar" -- that is, a
database of all the HTTP cookies that a given LWP::UserAgent object
knows about.

Cookies are a general mechanism which server side connections can use to
both store and retrieve information on the client side of the
connection. For more information about cookies refer to
<URL:http://curl.haxx.se/rfc/cookie_spec.html> and
<URL:http://www.cookiecentral.com/>. This module also implements the new
style cookies described in *RFC 2965*. The two variants of cookies are
supposed to be able to coexist happily.

Instances of the class *HTTP::Cookies* are able to store a collection of
Set-Cookie2: and Set-Cookie: headers and are able to use this
information to initialize Cookie-headers in *HTTP::Request* objects. The
state of a *HTTP::Cookies* object can be saved in and restored from
files.

METHODS
The following methods are provided:

$cookie_jar = HTTP::Cookies->new
The constructor takes hash style parameters. The following
parameters are recognized:

file: name of the file to restore cookies from and save cookies to
autosave: save during destruction (bool)
ignore_discard: save even cookies that are requested to be discarded (bool)
hide_cookie2: do not add Cookie2 header to requests

Future parameters might include (not yet implemented):

max_cookies 300
max_cookies_per_domain 20
max_cookie_size 4096

no_cookies list of domain names that we never return cookies to
$cookie_jar->add_cookie_header( $request )
The add_cookie_header() method will set the appropriate
Cookie:-header for the *HTTP::Request* object given as argument. The
$request must have a valid url attribute before this method is
called.

$cookie_jar->extract_cookies( $response )
The extract_cookies() method will look for Set-Cookie: and
Set-Cookie2: headers in the *HTTP::Response* object passed as
argument. Any of these headers that are found are used to update the
state of the $cookie_jar.

$cookie_jar->set_cookie( $version, $key, $val, $path, $domain, $port,
$path_spec, $secure, $maxage, $discard, \%rest )
The set_cookie() method updates the state of the $cookie_jar. The
$key, $val, $domain, $port and $path arguments are strings. The
$path_spec, $secure, $discard arguments are boolean values. The
$maxage value is a number indicating number of seconds that this
cookie will live. A value <= 0 will delete this cookie. \%rest
defines various other attributes like "Comment" and "CommentURL".

$cookie_jar->save
$cookie_jar->save( $file )
This method file saves the state of the $cookie_jar to a file. The
state can then be restored later using the load() method. If a
filename is not specified we will use the name specified during
construction. If the attribute *ignore_discard* is set, then we will
even save cookies that are marked to be discarded.

The default is to save a sequence of "Set-Cookie3" lines.
"Set-Cookie3" is a proprietary LWP format, not known to be
compatible with any browser. The *HTTP::Cookies::Netscape* sub-class
can be used to save in a format compatible with Netscape.

$cookie_jar->load
$cookie_jar->load( $file )
This method reads the cookies from the file and adds them to the
$cookie_jar. The file must be in the format written by the save()
method.

$cookie_jar->revert
This method empties the $cookie_jar and re-loads the $cookie_jar
from the last save file.

$cookie_jar->clear
$cookie_jar->clear( $domain )
$cookie_jar->clear( $domain, $path )
$cookie_jar->clear( $domain, $path, $key )
Invoking this method without arguments will empty the whole $cookie_jar. If given a single argument only cookies belonging to that domain will be removed. If given two arguments, cookies belonging to the specified path within that domain are removed. If given three arguments, then the cookie with the specified key, path and domain is removed.

$cookie_jar->clear_temporary_cookies
Discard all temporary cookies. Scans for all cookies in the jar with either no expire field or a true `discard' flag. To be called when the user agent shuts down according to RFC 2965.

$cookie_jar->scan( \&callback )
The argument is a subroutine that will be invoked for each cookie stored in the $cookie_jar. The subroutine will be invoked with the following arguments:

0  version
1  key
2  val
3  path
4  domain
5  port
6  path_spec
7  secure
8  expires
9  discard
10  hash

$cookie_jar->as_string
$cookie_jar->as_string( $skip_discardables )
The as_string() method will return the state of the $cookie_jar represented as a sequence of "Set-Cookie3" header lines separated by "\n". If $skip_discardables is TRUE, it will not return lines for cookies with the *Discard* attribute.

SEE ALSO
HTTP::Cookies::Netscape, HTTP::Cookies::Microsoft

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

=head1 NAME

HTTP::Cookies::Netscape - access to Netscape cookies files

=head1 SYNOPSIS

use LWP;
use HTTP::Cookies::Netscape;
$cookie_jar = HTTP::Cookies::Netscape->new(
   file => "c:/program files/netscape/users/ZombieCharity/cookies.txt",
);
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( $cookie_jar );

=head1 DESCRIPTION

This is a subclass of C<HTTP::Cookies> that reads (and optionally
writes) Netscape/Mozilla cookie files.

See the documentation for L<HTTP::Cookies>.

=head1 CAVEATS

Please note that the Netscape/Mozilla cookie file format can't store
all the information available in the Set-Cookie2 headers, so you will
probably lose some information if you save in this format.

At time of writing, this module seems to work fine with Mozilla
Phoenix/Firebird.

=head1 SEE ALSO

L<HTTP::Cookies::Microsoft>

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```

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=head1 NAME

HTTP::Cookies::Microsoft - access to Microsoft cookies files

=head1 SYNOPSIS

use LWP;
use HTTP::Cookies::Microsoft;
use Win32::TieRegistry(Delimiter => "/");
my $cookies_dir = $Registry->{"C\User/Software/Microsoft/Windows/CurrentVersion/Explorer/Shell Folders/Cookies"};

$cookie_jar = HTTP::Cookies::Microsoft->new(
    file => "$cookies_dir\index.dat",
    'delayload' => 1,
);
my $browser = LWP::UserAgent->new;
(browser->cookie_jar( $cookie_jar );

=head1 DESCRIPTION

This is a subclass of C<HTTP::Cookies> which loads Microsoft Internet Explorer 5.x and 6.x for Windows (MSIE) cookie files.

See the documentation for L<HTTP::Cookies>.

=head1 METHODS

The following methods are provided:
=over 4

=item $cookie_jar = HTTP::Cookies::Microsoft->new;

The constructor takes hash style parameters. In addition to the regular HTTP::Cookies parameters, HTTP::Cookies::Microsoft recognizes the following:

delayload: delay loading of cookie data until a request is actually made. This results in faster runtime unless you use most of the cookies since only the domain's cookie data is loaded on demand.

=back

=head1 CAVEATS

Please note that the code DOESN'T support saving to the MSIE cookie file format.

=head1 AUTHOR

Johnny Lee <typo_pl@hotmail.com>

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* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/SslContextBuilder.java
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Source Files
-----------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
  <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from
The `grn' preprocessor, written by Barry Roithblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditoff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

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

The following files are included:

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

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

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

Macro Packages
--------------

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

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

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

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

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

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

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

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

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

The patterns have been converted to a format groff can understand.
The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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

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

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

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

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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It may happen that this requirement contradicts the license
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   b) Give prominent notice with the combined library of the fact
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1.789 xz 5.1.1alpha+20120614 2ubuntu2

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

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

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

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@page
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@example
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Ty Coon, President of Vice
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That's all there is to it!
(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.
This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.
Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.793 busybox 1.31.1-r17

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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The KStem stemmer in
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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName}). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
* Creates a new [ @link GeneratorAdapter ]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ @link #GeneratorAdapter(int, MethodVisitor, int, String, String) ]
* version.
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [ @link Opcodes ]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [ @link Type ]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
* Constructs a new [@link Textifier]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [@link #Textifier(int)]
* version.
*
* @throws IllegalStateException
*             If a subclass calls this constructor.
*/

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/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Constructs a new [LocalVariableAnnotationNode]. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * [LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [TypeReference].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeInsnNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IincInsnNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/Desktop.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FrameNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java

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 * Creates a new [AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [Type Type]).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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condition variables;
enhancements to semaphores;
enhancements to mutexes;
nue mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliatchko;

system clock change handling re CV timeouts;

bug fixes.

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Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
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implementation of MCS (Mellor-Crummey/Scott) locks.
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Licensee will be eligible to receive Support and Updates during the Initial Term, in accordance with Digia's then 
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additional Support and Updates according to this Section 11 below. 
Licensee may purchase additional Support and Updates following the Initial Term at Digia's terms and conditions 
applicable at the time of renewal.

12. CONFIDENTIALITY
Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the
other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

13.1. Marketing
Digia may include Licensee's company name and logo in a publicly available list of Digia customers and in its public communications.

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Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. Digia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

13.3. Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of the Licenses, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.
13.4. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for material breach.

13.5. Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6. Payment and Taxes
If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7. Force Majeure
Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8. Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.
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Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

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Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, and 9.8 of this Agreement.

9.4. Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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9.6. Governing Law and Legal Venue
This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes arising out of or relating to this Agreement shall be resolved in arbitration under the Rules of Arbitration of the Chamber of Commerce of Helsinki, Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

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Agreement version 1.3.2

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3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

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5. Under what terms are derivative works allowed?

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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

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7. I want to sell a software package that uses these fonts: Can I do so?
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Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5.1, 6, 7, 8(iv), 10, 12, 13.5, 13.6, 13.9, 13.10 and 13.11 of this Agreement. Notwithstanding the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

13.5 Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of
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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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any other legal theory, based on the Licensed Software, Digia’s entire liability to Licensee and Licensee’s exclusive
remedy shall be, at Digia’s option, either (a) return of the price Licensee paid for the Licensed Software, or (b) repair
or replacement of the Licensed Software, provided Licensee returns to Digia all copies of the Licensed Software as
originally delivered to Licensee. Digia shall not under any circumstances be liable to Licensee based on failure of
the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Digia, under any
circumstances, be liable for special damages, punitive or exemplary damages, damages for loss of profits or
interruption of business or for loss or corruption of data. Any award of damages from Digia to Licensee shall not
exceed the total amount Licensee has paid to Digia in connection with this Agreement.

11. SUPPORT AND UPDATES
Licensee will be eligible to receive Support and Updates during the Initial Term, in accordance with Digia's then
current policies and procedures, if any. Such policies and procedures may be changed from time to time. Following
the Initial Term, Digia shall no longer make the Licensed Software available to Licensee unless Licensee purchases
additional Support and Updates according to this Section 11 below.
Licensee may purchase additional Support and Updates following the Initial Term at Digia’s terms and conditions
applicable at the time of renewal.

12. CONFIDENTIALITY
Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the
other party’s business, business methods, business plans, customers, business relations, technology, and other
information, including the terms of this Agreement, that is confidential and of great value to the other party, and the
value of which would be significantly reduced if disclosed to third parties (the "Confidential Information").
Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the
"Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and
agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the
Confidential Information to a third party without the Disclosing Party’s prior written approval; and (iii) not, directly
or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its
responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential
Information of the other party, which measures shall not be less than the measures taken by such party to protect its
own confidential and proprietary information.
“Confidential Information” shall not include information that (a) is or becomes generally known to the public
through no act or omission of the Receiving Party; (b) was in the Receiving Party’s lawful possession prior to the
disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the
Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential
Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have
not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

13.1 Marketing
Digia may include Licensee's company name and logo in a publicly available list of Digia customers and in its public communications.

13.2 No Assignment
Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. Digia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

13.3 Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of the Licenses, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

13.4 Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

13.5 Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of
liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6 Payment and Taxes
If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7 Force Majeure
Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A “Force Majeure” event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8 Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:
Digia USA, Inc
2350 Mission College Blvd.
Suite 1020
Santa Clara, CA 95054
U.S.A.
Fax: +1 408 433 9360

13.9 Export Control
Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10 Governing Law and Legal Venue
This Agreement shall be governed by and construed in accordance with the federal laws of the United States of
America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defence or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 13.10 is intended to, or shall be deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.

13.11 No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Digia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/or Modified Software, as applicable, with any other software or hardware not delivered by Digia under this Agreement.

13.11 Government End Users
A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

Appendix 1

1. Parts of the Licensed Software that are permitted for distribution ("Redistributables")
   - The Licensed Software's main and plug-in libraries in object code form
   - The Licensed Software's configuration tool ("qtconfig")
   - The Licensed Software's help tool in object code/executable form ("Qt Assistant")
   - The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")
   - The Licensed Software's designer tool ("Qt Designer")
   - The Licensed Software's IDE tool ("Qt Creator")
   - The Licensed Software's QML ("Qt Quick") launcher tool in object code/executable form

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to
   - The Licensed Software's source code and header files
   - The Licensed Software's documentation
   - The Licensed Software's tool for writing makefiles ("qmake")
   - The Licensed Software's Meta Object Compiler ("moc")
- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")
- The Licensed Software's Resource Compiler ("rcc")
- The Licensed Software's generator (only in the case of Qt Jambi if applicable)
- The Licensed Software's Qt SDK

QT COMMERCIAL ALL OPERATING SYSTEMS COMMERCIAL DEVELOPER LICENSE AGREEMENT

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FAX + 1 408 433 9360
PLACE OF REGISTERED OFFICE: DELAWARE | WWW.DIGIA.COM
EVALUATION LICENSE AGREEMENT
Agreement version 2.0

This Evaluation License Agreement ("Agreement") is a legal agreement between Digia USA, Inc. ("Digia"), with its registered office at 32 W. Loockerman Street, Suite 201, City of Dover, County of Kent, Delaware 19904, U.S.A. and you (either an individual or a legal entity) ("Licensee") for the Licensed Software (as defined below).

1. DEFINITIONS
"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.
"Term" shall mean the period of time thirty (30) days from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Digia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.
"Licensed Software" shall mean the computer software, "online" or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation delivered by Digia to Licensee in conjunction with this Agreement.
"Nokia shall mean Digia Plc, a corporation incorporated under the laws of Finland, having its registered office at PO box 226, 00045 Nokia Group, Finland (visiting address Keilalahdentie 4, 02150 Espoo, Finland) and registered with the Finnish Trade Register under business ID 0112038-9 and acting on behalf of its respective Affiliates.
"Party or Parties" shall mean Licensee and/or Digia.

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4.3. No Technical Support
Digia has no obligation to furnish Licensee with any technical support whatsoever. Any such support is subject to separate agreement between the Parties.

4.4. Further Requirements
It is expressly acknowledged and understood by Licensee, that Licensee is strictly prohibited from using Licensed Software for creation of mobile phones or tablet computers targeted for consumer end users. Notwithstanding anything contrary to this Agreement, it is expressly acknowledged and understood by Licensee, that Nokia shall hereby be named as a third party beneficiary under this Agreement with respect to this Section 4.4. Therefore, Nokia shall have the same rights as Digia under this Agreement with respect to this Section 4.4, and shall be entitled to exercise such rights independent from Digia.

5. THIRD PARTY SOFTWARE
The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included along with the Licensed Software delivery as a convenience for development and testing only. Such source code and libraries may be listed in the "/src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software where the Third Party Software is used, as may be amended from time to time, do not comprise the Licensed Software. Licensee acknowledges (1) that some part of Third Party Software may require additional licensing of copyright and patents from the owners of such, and (2) that distribution of any of the Licensed Software referencing any portion of a Third Party Software may require appropriate licensing from such third parties.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER
The Licensed Software is licensed to Licensee "as is". To the maximum extent permitted by applicable law, Digia
on behalf of itself and its suppliers, disclaims all warranties and conditions, either express or implied, including, but not limited to, implied warranties of merchantability, fitness for a particular purpose, title and non-infringement with regard to the Licensed Software.

7. LIMITATION OF LIABILITY
If, Digia's warranty disclaimer notwithstanding, Digia is held liable to Licensee, whether in contract, tort or any other legal theory, based on the Licensed Software, Digia's entire liability to Licensee and Licensee's exclusive remedy shall be, at Digia's option, either (A) return of the price Licensee paid for the Licensed Software, or (B) repair or replacement of the Licensed Software, provided Licensee returns to Digia all copies of the Licensed Software as originally delivered to Licensee. Digia shall not under any circumstances be liable to Licensee based on failure of the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Digia under any circumstances be liable for special damages, punitive or exemplary damages, damages for loss of profits or interruption of business or for loss or corruption of data. Any award of damages from Digia to Licensee shall not exceed the total amount Licensee has paid to Digia in connection with this Agreement.

8. CONFIDENTIALITY
Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its Affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to prevent disclosure and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

9. GENERAL PROVISIONS
9.1 No Assignment
Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. For the avoidance of doubt, Digia's right to assign or transfer the Agreement, in whole or in part, shall be unrestricted.
9.2 Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Upon termination of this Agreement, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

9.3 Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, and 9.8 of this Agreement.

9.4 Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

9.5 Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:
Digia USA, Inc
2350 Mission College Blvd.
Suite 1020
Santa Clara, CA 95054
U.S.A.
Fax: +1 408 433 9360

9.6 Export Control
Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software.

9.7 Governing Law and Legal Venue
This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America.
America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defence or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 9.6 is intended to, or shall be deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.

9.8 No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Digia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by Digia under this Agreement.

9.9 Government End Users
A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

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We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

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```

1.806 druid-common 0.10.0

1.807 makedumpfile 1.5.5-2ubuntu1.6

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*
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1.825 disruptor 3.3.0

1.826 commons-codec 1.9

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1.830 pango 1.36.3 1ubuntu1.1

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DRuntime: Runtime Library for the D Programming Language

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.842 libusb-compat 0.1.12-23.3ubuntu1

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1.850 e2fsprogs 1.42.12-2+b1
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007) */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; Id -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@.-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o
23-June-2007

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---

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#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
----------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
----------

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD
----------

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img
---layout-------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end     size  fstype   [fsize bsize   cpg]
c: 4096  20479  16384  unused        0     0     0
d:  0    16064 16065  unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end     size  fstype   [fsize bsize   cpg]
a: 4096  6144  2049  4.2BSD        0     0     0
c: 4096  20479 16384  unused        0     0

d:  0    16064 16065  unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):

| 0  | unused           |
| 1  | swap             |
| 2  | Version 6        |
| 3  | Version 7        |
| 4  | System V         |
| 5  | 4.1BSD           |
| 6  | Eighth Edition   |
| 7  | 4.2BSD           |
| 8  | MS-DOS           |
| 9  | 4.4LFS           |
| 10 | AdvFS            |
| a  | unknown          |
| b  | HPFS             |
| c  | ISO-9660         |
| d  | boot             |
| e  | ADOS             |
| f  | HFS              |

1.852 node-minimatch 1.0.0-1

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1.853 servlet-api 2.5

1.854 rsync 3.0.9 17.el7
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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.856 python-jsonpatch 1.2-4.el7

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1.857 ustr 1.0.4-3+b2

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=head1 NAME

Pod::Plainer - Perl extension for converting Pod to old-style Pod.

=head1 SYNOPSIS

use Pod::Plainer;

my $parser = Pod::Plainer -> new ();
$parser -> parse_from_filehandle(

=head1 DESCRIPTION

Pod::Plainer uses Pod::Parser which takes Pod with the (new) 'CE<lt>E<lt> .. E<gt>E<gt>' constructs and returns the old(er) style with just 'CE<lt>E<gt>'; ' <' and '>' are replaced by 'EE<lt>ltE<gt>' and 'EE<lt>gtE<gt>'.

This can be used to pre-process Pod before using tools which do not recognise the new style Pods.

=head2 METHODS

=over

=item escape_lgt

Replace ' <' and '>' by 'EE<lt>ltE<gt>' and 'EE<lt>gtE<gt>'.

=item simple_delimiters

Replace delimiters by 'E<lt>' and 'E<gt>'.
Redefine \texttt{C<textblock>} from \texttt{L<Pod::Parser>} to use \texttt{C<escape_ltgt>}
and \texttt{C<simple_delimiters>}.

=back

=head2 EXPORT

None by default.

=head1 AUTHOR

Robin Barker, rmbarker@cpan.org

=head1 SEE ALSO

See \texttt{L<Pod::Parser>}.

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$Id: Plainer.pm 257 2010-08-25 10:53:14Z robin $

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Pod-Plainer version 1.03
=================================

This was a core module in the Perl distribution to aid adoption
of extended POD features. It is no longer needed in the Perl
distribution and is being migrated to CPAN.
INSTALLATION

To install this module type the following:

perl Makefile.PL
make
test
install

DEPENDENCIES

This module requires these other modules and libraries:

Pod::Parser

RECENT CHANGES

1.03 Removed C use if ... deprecate

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1.860 grizzly-http 2.1.2
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
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* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/writer/DefaultMapper.java

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Version 3.0, 18 August 2009

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Julian Seward, jseward@bzip.org
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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross- compilation" );
}
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\d{4,}\b/;  
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /\b\d{4,}\b/;  
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
1.880 circonusllhist 0.1.3

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1.881 linux-firmware 1.127.24

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BIRT Runtime

What is it?

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and
related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console

In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
3. generate the report by run

   genReport xxx.rptdesign

   xxx.rptdesign is the design file. If the design file is in the current directory, you have to specify it by \xxx.rptdesign

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* /opt/cola/permits/1138400306_1614282180.98/0/org-eclipse-core-contenttype-3-4-200-v20140207-1251-sources-3-jar/runtime_readme.txt

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[incr Tcl]
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http://www.tcltk.com/itcl

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebfb7248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
  #    start   end   size   fstype [fsize bsize cpg]
c:   4096  20479  16384   unused     0     0     0
d:    0   16064  16065   unused     0     0

BSD disklabel command (m for help):
Command (m for help):
--------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
  #    start   end   size   fstype [fsize bsize cpg]
a:   4096   6144   2049     4.2BSD     0     0     0
c:   4096  20479  16384   unused     0     0     0
d:    0   16064  16065   unused     0     0

BSD disklabel command (m for help):
Command (m for help):
--------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused      5     4.1BSD     9     4.4LFS     d     boot
1   swap       6   Eighth Edition   a     unknown     e     ADOS
2 Version 6   7     4.2BSD       b     HPFS     f     HFS
BSD disklabel command (m for help):

1.887 attr 2.4.47-2

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This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

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* Providing benchmark suite
* Alec Wysoker
* Performance and memory usage improvement

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Header File
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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1.894 perl-module-pluggable 4.8-3.el7

1.895 acpid 1.0.10 3.el6
1.895.1 Available under license:

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1.896 libsoftware-license-perl 0.103010-3
1.896.1 Available under license :

```perl
#!/perl
use strict;
use warnings;
use Test::More tests => 5;

my $class = 'Software::License::Perl_5';
require_ok($class);

my $license = $class->new({ holder => 'X. Ample' });

is($license->holder, 'X. Ample', '(c) holder');
is($license->year, (localtime)[5]+1900, '(c) year');
like($license->name, qr/perl 5/i, "license name");
like($license->fulltext, qr/general public/i, 'license text');
```
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This README file was generated by Dist::Zilla::Plugin::Readme v5.014.

```perl
# perl

use Test::More tests => 2;

note 'Checking Changes';
my $changes_file = 'Changes';
my $newver = '0.103010';
my $trial_token = '-TRIAL';

SKIP: {
    ok(-e $changes_file, "$changes_file file exists")
    or skip 'Changes is missing', 1;

    ok(_get_changes($newver), "Changes_file has content for $newver");
}

done_testing;

# _get_changes copied and adapted from Dist::Zilla::Plugin::Git::Commit
# by Jerome Quelin
sub _get_changes
{
    my $newver = shift;

    # parse changelog to find commit message
    open(my $fh, '<', $changes_file) or die "cannot open $changes_file: $!";
    my $changelog = join('', <$fh>);
    close $fh;

    my @content =
        grep { /^
            $newver(?:$trial_token)?(?:\s+|$)/ \n            ... /^\S/ \n        } # from newver to un-indented
        split /\n/,$changelog;
    shift @content; # drop the version line
```
# drop unindented last line and trailing blank lines
pop @content while ( @content && $content[-1] =~ /^\s*$/ );

# return number of non-blank lines
return scalar @content;

name    = Software-License
author  = Ricardo Signes <rjbs@cpan.org>
license = Perl_5
copyright_holder = Ricardo Signes

use strict;
use warnings;
use Test::More tests => 2;

use Software::License::BSD;
use Software::License::Mozilla_1_0;

# TEST
is (scalar(Software::License::BSD->url()),
   'http://opensource.org/licenses/BSD-3-Clause',
   "BSD->url() is OK."
);

# TEST
is (scalar(Software::License::Mozilla_1_0->url()),
   'http://www.mozilla.org/MPL/MPL-1.0.txt',
   "Mozilla_1_0->url() is OK."
);

# This file was automatically generated by Dist::Zilla::Plugin::MakeMaker v5.014.
use strict;
use warnings;
use 5.006;
use ExtUtils::MakeMaker 6.30;

my %WriteMakefileArgs = (
  "ABSTRACT" => "packages that provide templated software licenses",
  "AUTHOR" => "Ricardo Signes <rjbs@cpan.org>",
  "BUILD_REQUIRES" => {},
  "CONFIGURE_REQUIRES" => {},
  "ExtUtils::MakeMaker" => "6.30"
my %FallbackPrereqs = (  
  "Carp" => 0,  
  "Data::Section" => 0,  
  "File::Spec" => 0,  
  "IO::Dir" => 0,  
  "Module::Load" => 0,  
  "Sub::Install" => 0,  
  "Text::Template" => 0,  
  "parent" => 0,  
  "strict" => 0,  
  "warnings" => 0  
);

unless ( eval { ExtUtils::MakeMaker->VERSION(6.63_03) } ) {  
delete $WriteMakefileArgs{TEST_REQUIRES};  
delete $WriteMakefileArgs{BUILD_REQUIRES};  
$WriteMakefileArgs{PREREQ_PM} = %FallbackPrereqs;
delete $WriteMakefileArgs{CONFIGURE.Requires} unless eval { ExtUtils::MakeMaker->VERSION(6.52) };

WriteMakefile(%WriteMakefileArgs);

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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The End
#!perl
# This file was automatically generated by Dist::Zilla::Plugin::PodSyntaxTests.
use Test::More;
use Test::Pod 1.41;

all_pod_files_ok();
# This file was automatically generated by Dist::Zilla::Plugin::Manifest v5.014.
Changes
LICENSE
MANIFEST
META.json
META.yml
Makefile.PL
README
dist.ini
lib/Software/License.pm
lib/Software/License/AGPL_3.pm
lib/Software/License/Apache_1_1.pm
lib/Software/License/Apache_2_0.pm
lib/Software/License/Artistic_1_0.pm
lib/Software/License/Artistic_2_0.pm
lib/Software/License/BSD.pm
lib/Software/License/CC0_1_0.pm
lib/Software/License/Custom.pm
lib/Software/License/FreeBSD.pm
lib/Software/License/GFDL_1_2.pm
lib/Software/License/GFDL_1_3.pm
lib/Software/License/GPL_1.pm
lib/Software/License/GPL_2.pm
lib/Software/License/GPL_3.pm
lib/Software/License/LGPL_2_1.pm
lib/Software/License/LGPL_3_0.pm
lib/Software/License/MIT.pm
lib/Software/License/Mozilla_1_0.pm
lib/Software/License/Mozilla_1_1.pm
lib/Software/License/Mozilla_2_0.pm
lib/Software/License/None.pm
lib/Software/License/OpenSSL.pm
lib/Software/License/Perl_5.pm
lib/Software/License/PostgreSQL.pm
lib/Software/License/QPL_1_0.pm
lib/Software/License/SSLeay.pm
lib/Software/License/Sun.pm
lib/Software/License/Zlib.pm
lib/Software/LicenseUtils.pm
t/000-report-versions-tiny.t
t/basic.t
t/bsd-url.t
use strict;
use warnings;
use Test::More 0.88;

# This is a relatively nice way to avoid Test::NoWarnings breaking our
# expectations by adding extra tests, without using no_plan. It also helps
# avoid any other test module that feels introducing random tests, or even
# test plans, is a nice idea.
our $success = 0;
END { $success && done_testing; }

# List our own version used to generate this
my $v = "Generated by Dist::Zilla::Plugin::ReportVersions::Tiny v1.10\n";

eval {                     # no excuses!
  # report our Perl details
  my $want = '5.006';
  $v .= "perl: $] (wanted $want) on $^O from $^X\n"
};
defined($@) and diag("$@");

# Now, our module version dependencies:
sub pmver {
  my ($module, $wanted) = @_;
  $wanted = " (want $wanted)";
  my $pmver;
  eval "require $module;";
  if ($@) {
    if ($@ =~ m/Can't locate .*/ in \@INC/) {
      $pmver = 'module not found.';
    } else {
      diag("$module: $@");
      $pmver = 'died during require.';
    }
  } else {
    my $version;
    eval { $version = $module->VERSION; }
    if ($@) {
      diag("$module: $@");
      $pmver = 'died during VERSION check.';
    } else {
      my $version;
      eval { $version = $module->VERSION; }
      if ($@) {
        diag("$module: $@");
        $pmver = 'died during VERSION check.';
      }
    }
  }
  return $pmver . $wanted;
}
# So, we should be good, right?
return sprintf("%-45s => %-10s%-15s%s", $module, $pmver, $wanted, "\n");
}

# All done.
$v .= "\<EOT\"

Thanks for using my code. I hope it works for you.
If not, please try and include this output in the bug report.
That will help me reproduce the issue and solve your problem.

EOT

diag($v);
ok(1, "we really didn't test anything, just reporting data");
$success = 1;

# Work around another nasty module on CPAN. :/
no warnings 'once';
$Template::Test::NO_FLUSH = 1;
exit 0;
{
  "abstract" : "packages that provide templated software licenses",
  "author" : [
    "Ricardo Signes <rjbs@cpan.org>"
  ];


"homepage" : "https://github.com/rjbs/Software-License",
"repository" : {
  "type" : "git",
  "url" : "https://github.com/rjbs/Software-License.git",
  "web" : "https://github.com/rjbs/Software-License"
}

"version" : "0.103010",
"x_Dist_Zilla" : {
  "perl" : {
    "version" : "5.019010"
  },
  "plugins" : [
    {
      "class" : "Dist::Zilla::Plugin::Git::GatherDir",
      "name" : "@RJBS/Git::GatherDir",
      "version" : "2.020"
    },
    {
      "class" : "Dist::Zilla::Plugin::CheckPrereqsIndexed",
      "name" : "@RJBS/CheckPrereqsIndexed",
      "version" : "0.011"
    },
    {
      "class" : "Dist::Zilla::Plugin::CheckExtraTests",
      "name" : "@RJBS/CheckExtraTests",
      "version" : "0.021"
    },
    {
      "class" : "Dist::Zilla::Plugin::PromptIfStale",
      "config" : {
        "Dist::Zilla::Plugin::PromptIfStale" : {
          "check_all_plugins" : 0,
          "check_all_prereqs" : 0,
          "modules" : ["Dist::Zilla::PluginBundle::RJBS"],
          "phase" : "build",
          "skip" : []
        }
      },
      "name" : "@RJBS/RJBS-Outdated",
      "version" : "0.021"
    },
    {
      "class" : "Dist::Zilla::Plugin::PromptIfStale",
      "config" : {
        "Dist::Zilla::Plugin::PromptIfStale" : {
          "check_all_plugins" : 0,
          "check_all_prereqs" : 0,
          "modules" : ["Dist::Zilla::PluginBundle::RJBS"],
          "phase" : "build",
          "skip" : []
        }
      },
      "name" : "@RJBS/RJBS-Outdated",
      "version" : "0.021"
    }
  ]
}
"Dist::Zilla::Plugin::PromptIfStale": {
  "check_all_plugins": "1",
  "check_all_prereqs": 0,
  "modules": [],
  "phase": "release",
  "skip": []
}
"name": "@RJBS/CPAN-Outdated",
"version": "0.021"
},
{
  "class": "Dist::Zilla::Plugin::PruneCruft",
  "name": "@RJBS/@Filter/PruneCruft",
  "version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::ManifestSkip",
  "name": "@RJBS/@Filter/ManifestSkip",
  "version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::MetaYAML",
  "name": "@RJBS/@Filter/MetaYAML",
  "version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::License",
  "name": "@RJBS/@Filter/License",
  "version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::Readme",
  "name": "@RJBS/@Filter/Readme",
  "version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::ExecDir",
  "name": "@RJBS/@Filter/ExecDir",
  "version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::ShareDir",
  "name": "@RJBS/@Filter/ShareDir",
  "version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::Manifest",  

Open Source Used In Tetration 3.5.1 9364
"name" : "@RJBS/@Filter/Manifest",
"version" : "5.014"
},

{  
"class" : "Dist::Zilla::Plugin::TestRelease",
"name" : "@RJBS/@Filter/TestRelease",
"version" : "5.014"
},

{  
"class" : "Dist::Zilla::Plugin::ConfirmRelease",
"name" : "@RJBS/@Filter/ConfirmRelease",
"version" : "5.014"
},

{  
"class" : "Dist::Zilla::Plugin::UploadToCPAN",
"name" : "@RJBS/@Filter/UploadToCPAN",
"version" : "5.014"
},

{  
"class" : "Dist::Zilla::Plugin::MakeMaker",
"config" : {  
"Dist::Zilla::Role::TestRunner" : {  
"default_jobs" : 9  
}  
},
"name" : "@RJBS/MakeMaker",
"version" : "5.014"
},

{  
"class" : "Dist::Zilla::Plugin::AutoPrereqs",
"name" : "@RJBS/AutoPrereqs",
"version" : "5.014"
},

{  
"class" : "Dist::Zilla::Plugin::Git::NextVersion",
"name" : "@RJBS/Git::NextVersion",
"version" : "2.020"
},

{  
"class" : "Dist::Zilla::Plugin::PkgVersion",
"name" : "@RJBS/PkgVersion",
"version" : "5.014"
},

{  
"class" : "Dist::Zilla::Plugin::MetaConfig",
"name" : "@RJBS/MetaConfig",
"version" : "5.014"
}


```json
{
    "class" : "Dist::Zilla::Plugin::MetaJSON",
    "name" : "@RJBS/MetaJSON",
    "version" : "5.014"
},
{
    "class" : "Dist::Zilla::Plugin::NextRelease",
    "name" : "@RJBS/NextRelease",
    "version" : "5.014"
},
{
    "class" : "Dist::Zilla::Plugin::Test::ChangesHasContent",
    "name" : "@RJBS/Test::ChangesHasContent",
    "version" : "0.006"
},
{
    "class" : "Dist::Zilla::Plugin::PodSyntaxTests",
    "name" : "@RJBS/PodSyntaxTests",
    "version" : "5.014"
},
{
    "class" : "Dist::Zilla::Plugin::ReportVersions::Tiny",
    "name" : "@RJBS/ReportVersions::Tiny",
    "version" : "1.10"
},
{
    "class" : "Dist::Zilla::Plugin::Prereqs",
    "config" : {
        "Dist::Zilla::Plugin::Prereqs" : {
            "phase" : "test",
            "type" : "requires"
        }
    },
    "name" : "@RJBS/TestMoreWithSubtests",
    "version" : "5.014"
},
{
    "class" : "Dist::Zilla::Plugin::PodWeaver",
    "config" : {
        "Dist::Zilla::Plugin::PodWeaver" : {
            "config_plugins" : [
                "@RJBS"
            ],
            "finder" : [
                ":InstallModules",
                ":ExecFiles"
            ],
            "plugins" : [
```
"class" : "Pod::Weaver::Plugin::EnsurePod5",
"name" : "@CorePrep/EnsurePod5",
"version" : "4.006"
},

"class" : "Pod::Weaver::Plugin::H1Nester",
"name" : "@CorePrep/H1Nester",
"version" : "4.006"
},

"class" : "Pod::Weaver::Plugin::SingleEncoding",
"name" : "@RJBS/SingleEncoding",
"version" : "4.006"
},

"class" : "Pod::Weaver::Section::Name",
"name" : "@RJBS/Name",
"version" : "4.006"
},

"class" : "Pod::Weaver::Section::Version",
"name" : "@RJBS/Version",
"version" : "4.006"
},

"class" : "Pod::Weaver::Section::Region",
"name" : "@RJBS/Prelude",
"version" : "4.006"
},

"class" : "Pod::Weaver::Section::Generic",
"name" : "@RJBS/Synopsis",
"version" : "4.006"
},

"class" : "Pod::Weaver::Section::Generic",
"name" : "@RJBS/Description",
"version" : "4.006"
},

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"name" : "@RJBS/Overview",
"version" : "4.006"
},

"class" : "Pod::Weaver::Section::Generic",
"name" : "@RJBS/Stability",
"version" : "4.006"
}
"version": "4.006"
},
{
  "class": "Pod::Weaver::Section::Collect",
  "name": "Attributes",
  "version": "4.006"
},
{
  "class": "Pod::Weaver::Section::Collect",
  "name": "Methods",
  "version": "4.006"
},
{
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  "name": "Functions",
  "version": "4.006"
},
{
  "class": "Pod::Weaver::Section::Leftovers",
  "name": "@RJBS/Leftovers",
  "version": "4.006"
},
{
  "class": "Pod::Weaver::Section::Region",
  "name": "@RJBS/postlude",
  "version": "4.006"
},
{
  "class": "Pod::Weaver::Section::Authors",
  "name": "@RJBS/Authors",
  "version": "4.006"
},
{
  "class": "Pod::Weaver::Section::Legal",
  "name": "@RJBS/Legal",
  "version": "4.006"
},
{
  "class": "Pod::Weaver::Plugin::Transformer",
  "name": "@RJBS/List",
  "version": "4.006"
}
]}

"name": "@RJBS/PodWeaver",
"version": "4.005"
}
<table>
<thead>
<tr>
<th>class</th>
<th>name</th>
<th>version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dist::Zilla::Plugin::GithubMeta</td>
<td>@RJBS/GithubMeta</td>
<td>0.42</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::Git::Check</td>
<td>@RJBS/@Git/Check</td>
<td>2.020</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::Git::Commit</td>
<td>@RJBS/@Git/Commit</td>
<td>2.020</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::Git::Tag</td>
<td>@RJBS/@Git/Tag</td>
<td>2.020</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::Git::Push</td>
<td>@RJBS/@Git/Push</td>
<td>2.020</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::FinderCode</td>
<td>:InstallModules</td>
<td>5.014</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::FinderCode</td>
<td>:IncModules</td>
<td>5.014</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::FinderCode</td>
<td>:TestFiles</td>
<td>5.014</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::FinderCode</td>
<td>:ExecFiles</td>
<td>5.014</td>
</tr>
<tr>
<td>Dist::Zilla::Plugin::FinderCode</td>
<td>:ShareFiles</td>
<td></td>
</tr>
</tbody>
</table>
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::FinderCode",
"name": ":MainModule",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::FinderCode",
"name": ":AllFiles",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::FinderCode",
"name": ":NoFiles",
"version": "5.014"
}
]
,"zilla": {
"class": "Dist::Zilla::Dist::Builder",
"config": {
"is_trial": "0"
},
"version": "5.014"
}
}
__NAME__
The Foo-Bar License
__URL__
http://www.example.com/foo-bar.txt
__META_NAME__
foo_bar_meta
__META2_NAME__
foo_bar_meta2
__NOTICE__
Copyright (C) {{self->year}} by {{self->holder}}.

This is free software, licensed under {{self->name}}.

LICENSE
The Foo-Bar License

Well... this is only some sample text. I'm true... only sample text!!!

Yes, spanning more lines and more paragraphs.

abstract: 'packages that provide templated software licenses'
author:
- Ricardo Signes <rjbs@cpan.org>

build_requires:
  Test::More: '0.96'
  Try::Tiny: '0'

configure_requires:
  ExtUtils::MakeMaker: '6.30'

dynamic_config: 0

generated_by: 'Dist::Zilla version 5.014, CPAN::Meta::Converter version 2.140640'

license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'

name: Software-License

requires:
  Carp: '0'
  Data::Section: '0'
  File::Spec: '0'
  IO::Dir: '0'
  Module::Load: '0'
  Sub::Install: '0'
  Text::Template: '0'

parent: '0'
perl: '5.006'
strict: '0'
warnings: '0'

resources:
  bugtracker: https://github.com/rjbs/Software-License/issues
  homepage: https://github.com/rjbs/Software-License
  repository: https://github.com/rjbs/Software-License.git

version: '0.103010'

x_Dist_Zilla:
  perl:
    version: '5.019010'

plugins:
  -
    class: Dist::Zilla::Plugin::Git::GatherDir
    name: '@RJBS/Git::GatherDir'
    version: '2.020'

  -
    class: Dist::Zilla::Plugin::CheckPrereqsIndexed
    name: '@RJBS/CheckPrereqsIndexed'
    version: '0.011'

  -
    class: Dist::Zilla::Plugin::CheckExtraTests
    name: '@RJBS/CheckExtraTests'
    version: '0.021'

class: Dist::Zilla::Plugin::PromptIfStale
config:
  Dist::Zilla::Plugin::PromptIfStale:
    check_all_plugins: 0
    check_all_prereqs: 0
  modules:
    - Dist::Zilla::PluginBundle::RJBS
      phase: build
      skip: []
      name: '@RJBS/RJBS-Outdated'
      version: '0.021'
    - Dist::Zilla::Plugin::PromptIfStale
      check_all_plugins: '1'
      check_all_prereqs: 0
      modules: []
      phase: release
      skip: []
      name: '@RJBS/CPAN-Outdated'
      version: '0.021'
    - Dist::Zilla::Plugin::PruneCruft
      name: '@RJBS/@Filter/PruneCruft'
      version: '5.014'
    - Dist::Zilla::Plugin::ManifestSkip
      name: '@RJBS/@Filter/ManifestSkip'
      version: '5.014'
    - Dist::Zilla::Plugin::MetaYAML
      name: '@RJBS/@Filter/MetaYAML'
      version: '5.014'
    - Dist::Zilla::Plugin::License
      name: '@RJBS/@Filter/License'
      version: '5.014'
    - Dist::Zilla::Plugin::Readme
      name: '@RJBS/@Filter/Readme'
      version: '5.014'
    - Dist::Zilla::Plugin::ExecDir
      name: '@RJBS/@Filter/ExecDir'
      version: '5.014'
    - Dist::Zilla::Plugin::ShareDir
version: '5.014'

- class: Dist::Zilla::Plugin::Test::ChangesHasContent
  name: '@RJBS/Test::ChangesHasContent'
  version: '0.006'

- class: Dist::Zilla::Plugin::PodSyntaxTests
  name: '@RJBS/PodSyntaxTests'
  version: '5.014'

- class: Dist::Zilla::Plugin::ReportVersions::Tiny
  name: '@RJBS/ReportVersions::Tiny'
  version: '1.10'

- class: Dist::Zilla::Plugin::Prereqs
  config:
    Dist::Zilla::Plugin::Prereqs:
      phase: test
      type: requires
      name: '@RJBS/TestMoreWithSubtests'
      version: '5.014'

- class: Dist::Zilla::Plugin::PodWeaver
  config:
    Dist::Zilla::Plugin::PodWeaver:
      config_plugins:
        - '@RJBS'
      finder:
        - ':InstallModules'
        - ':ExecFiles'
      plugins:
        - class: Pod::Weaver::Plugin::EnsurePod5
          name: '@CorePrep/EnsurePod5'
          version: '4.006'
        - class: Pod::Weaver::Plugin::H1Nester
          name: '@CorePrep/H1Nester'
          version: '4.006'
        - class: Pod::Weaver::Plugin::SingleEncoding
          name: '@RJBS/SingleEncoding'
          version: '4.006'
        - class: Pod::Weaver::Section::Name
          name: '@RJBS/Name'
          version: '4.006'
class: Pod::Weaver::Section::Version
name: '@RJBS/Version'
version: '4.006'
-
class: Pod::Weaver::Section::Region
name: '@RJBS/Prelude'
version: '4.006'
-
class: Pod::Weaver::Section::Generic
name: '@RJBS/Synopsis'
version: '4.006'
-
class: Pod::Weaver::Section::Generic
name: '@RJBS/Description'
version: '4.006'
-
class: Pod::Weaver::Section::Generic
name: '@RJBS/Overview'
version: '4.006'
-
class: Pod::Weaver::Section::Generic
name: '@RJBS/Stability'
version: '4.006'
-
class: Pod::Weaver::Section::Collect
name: Attributes
version: '4.006'
-
class: Pod::Weaver::Section::Collect
name: Methods
version: '4.006'
-
class: Pod::Weaver::Section::Collect
name: Functions
version: '4.006'
-
class: Pod::Weaver::Section::Leftovers
name: '@RJBS/Leftovers'
version: '4.006'
-
class: Pod::Weaver::Section::Region
name: '@RJBS/postlude'
version: '4.006'
-
class: Pod::Weaver::Section::Authors
name: '@RJBS/Authors'
version: '4.006'
-
class: Pod::Weaver::Section::Legal
  name: '@RJBS/Legal'
  version: '4.006'
-
  class: Pod::Weaver::Plugin::Transformer
    name: '@RJBS/List'
    version: '4.006'
    name: '@RJBS/PodWeaver'
    version: '4.005'
-
  class: Dist::Zilla::Plugin::GithubMeta
    name: '@RJBS/GithubMeta'
    version: '0.42'
-
  class: Dist::Zilla::Plugin::Git::Check
    name: '@RJBS/@Git/Check'
    version: '2.020'
-
  class: Dist::Zilla::Plugin::Git::Commit
    name: '@RJBS/@Git/Commit'
    version: '2.020'
-
  class: Dist::Zilla::Plugin::Git::Tag
    name: '@RJBS/@Git/Tag'
    version: '2.020'
-
  class: Dist::Zilla::Plugin::Git::Push
    name: '@RJBS/@Git/Push'
    version: '2.020'
-
  class: Dist::Zilla::Plugin::FinderCode
    name: ':InstallModules'
    version: '5.014'
-
  class: Dist::Zilla::Plugin::FinderCode
    name: ':IncModules'
    version: '5.014'
-
  class: Dist::Zilla::Plugin::FinderCode
    name: ':TestFiles'
    version: '5.014'
-
  class: Dist::Zilla::Plugin::FinderCode
    name: ':ExecFiles'
    version: '5.014'
-
  class: Dist::Zilla::Plugin::FinderCode
    name: ':ShareFiles'
version: '5.014'
-
  class: Dist::Zilla::Plugin::FinderCode
  name: ':MainModule'
  version: '5.014'
-
  class: Dist::Zilla::Plugin::FinderCode
  name: ':AllFiles'
  version: '5.014'
-
  class: Dist::Zilla::Plugin::FinderCode
  name: ':NoFiles'
  version: '5.014'
zilla:
  class: Dist::Zilla::Dist::Builder
  config:
    is_trial: '0'
    version: '5.014'
#!perl

use strict;
use warnings;

use Test::More tests => 26;
use Software::LicenseUtils;
use Try::Tiny;

sub _hack_guess_license_from_meta {
  my $license_str = shift;
  my @guess;
  try {
    my $hack = 'license : ' . $license_str;
    @guess = Software::LicenseUtils->guess_license_from_meta($hack);
  };
  return @guess;
}

my @cpan_meta_spec_licence_name = qw(
  agpl_3
  apache_1_1
  apache_2_0
  artistic_1
  artistic_2
  bsd
  freebsd
  gfdl_1_2
  gfdl_1_3

Open Source Used in Tetration 3.5.1 9377
foreach my $license_name (@cpan_meta_spec_licence_name) {
    my @guess = _hack_guess_license_from_meta($license_name);
    ok(@guess, "$license_name -> @guess");
}

is_deeply(
    [ Software::LicenseUtils->guess_license_from_meta_key('artistic_2', 2) ],
    [ 'Software::License::Artistic_2_0' ],
);

is_deeply(
    [ Software::LicenseUtils->guess_license_from_meta_key('gpl_3', 2) ],
    [ 'Software::License::GPL_3' ],
);

is_deeply(
    [ Software::LicenseUtils->guess_license_from_meta_key('gpl_3', 1) ],
    [ ],
);

done_testing;

my $class = 'Software::LicenseUtils';
require_ok($class);

my $license = $class->new_from_short_name(
    short_name => 'GPL-1',
);
holder => 'X. Ample'

is($license->holder, 'X. Ample', '(c) holder');
is($license->year, (localtime)[5]+1900, '(c) year');
isa_ok($license, 'Software::License::GPL_1', "license class");
like($license->name, qr/version 1/i, "license name");
like($license->fulltext, qr/general public/i, "license text");

Revision history for Software-License

0.103010 2014-03-29 22:13:19-04:00 America/New_York
   - fix guess_license_from_pod's return on GPL licenses
     (thanks, Syohei YOSHIDA!)

0.103009 2014-02-20 22:19:45-05:00 America/New_York
   - Updated FSF mailing address in license text for GFDL versions 1.2, GPL versions 1 & 2, and LGPL 2.1

0.103008 2013-11-16 22:37:14 America/New_York
   - faster! thanks, charsbar!
   - add new_from_short_name to LicenseUtils for spdx.org-style short names; thanks, Dominique Dumont!
   - avoid double trailing dots in expanded licenses; thanks, Dave Rolsky!
   - fix some errors in (3-clause) BSD license text
   - the 2-clause BSD ("FreeBSD") license no longer incorrectly puts "FreeBSD" as the owner in the license full text

0.103007 2013-10-26 19:57:05 America/New_York
   fix regex to allow guessing from meta things like perl_5 (thanks, Kevin Dawson!)

   replace 'use base' with 'use parent'

0.103006 2013-10-20 14:17:53 America/New_York
   try harder to identify licenses from all installed License classes;
   this is an @INC-scanning change, so be vigilant; thanks, David Golden!

0.103005 2012-12-08 16:15:30 America/New_York
   add MPL 2.0 (thanks, Bernhard Amann)

0.103004 2011-11-02 21:44:26 America/New_York
   update FSF's address

0.103003 2011-10-31 23:14:47 America/New_York
   use more direct links to GFDL 1.2 and 1.3

0.103002 2011-06-01 22:34:06 America/New_York
add GFDL 1.3

0.103001 2011-04-28 07:20:39 America/New_York
re-import text of GPL 1 and 2 to get new FSF address (RT #67795)

0.103000 2011-03-31 22:31:03 America/New_York
improve method dependency chains (thanks, Flavio Poletti)

add Custom license to stick the whole license in a file
-- still probably a bit experimental -- thanks, Flavio Poletti

0.102341 2010-12-11 10:22:56 America/New_York
add note to Artistic 2 that it's GPL compatible

0.102340 2010-08-22 23:25:01 America/New_York
add PostgreSQL

0.102250 2010-08-13 09:54:29 America/New_York
alter the output of None to look a bit less repetitive (ABRAXXA)

0.101620 2010-06-11 19:14:03 America/New_York
LGPL_3_0 now includes GPL_3 in its fulltext (RT #47135)

0.101600 2010-06-09 07:50:11 America/New_York
"None" should be "restrictive" on 1.4, not "restricted"

0.101410 2010-05-21 07:41:57 America/New_York
Artistic licenses' meta2_name should not have a trailing _0

0.101370 2010-05-17 19:07:27 America/New_York
add the meta2_name method for META.json files in schema v2

0.016 2010-05-01
added the None and CC0_1_0 licenses for the far ends of the spectrum
(thanks to Brian Phillips for None)

0.015 2010-03-26
up the Test::More prereq

0.014 2010-03-23
add meta_name to almost all remaining licenses, and add a test

0.013 2010-03-18
add meta_name to Artistic 2 (thanks, Bernardo Rechea)

0.012 2009-05-22
added guess_license_from_meta which is both JSON and YAML compatible
(BRICAS)
0.011  2009-05-19
clarify references to Perl in Perl_5 license
rename things that were YAML-specific to just be "meta"

0.010  2009-04-14
add url methods where they were missing (Shlomi Fish)

0.009  2009-01-16
add repo loc to metadata

0.008  2008-06-16
fix behavior when guessing multiple items from meta.yml
(RT #36805, thanks bricas!)

0.007  2008-06-08
fix detection of the various GNU licences

0.006  2008-06-07
refactor inline template logic out to Data::Section

0.005  2008-06-01
add meta_yml_name method

0.004  2008-04-12
documentation fixes

0.003  2008-04-11
[CHANGES THAT WILL BREAK YOUR CODE]
  _from_pm is now _from_pod
"guess" methods return a list

[ENHANCEMENTS]
guess_license_from_meta_yml (thanks, Brian Cassidy!)

0.002  2008-04-09
added Software::LicenseUtils (by request)
added ->url method to licenses
fix POD for Mozilla 1.1
add LGPL 3

0.001  2008-03-18
minor packaging fixes

0.000  2008-03-18
pre-release for public evaluation

#!perl
use strict;
use warnings;

use Test::More 0.88;

my @files = <lib/Software/License/*.pm>;

for my $module (@files) {
    # It's retired. Dunno if it's okay to be open_source. Punt!
    next if $module =~ /Sun.pm$/;

    my $pkg = $module;
    $pkg =~ s{^lib/}{};
    $pkg =~ s{\pm$}{};
    $pkg =~ s{/}{::}g;

    eval "require $pkg; 1";

    ok(defined $pkg->meta_name, "$pkg provide meta_name");
}

done_testing;

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Version 3, 19 November 2007

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use warnings;
use Test::More;
use Software::License::Custom;

my $slc = Software::License::Custom->new(
    holder => 'A. U. Thor',
    year   => 1972,
    filename => 't/custom-license'
);
isa_ok($slc, 'Software::License');

is($slc->name, 'The Foo-Bar License', 'name');
is($slc->url, 'http://www.example.com/foo-bar.txt', 'url');
is($slc->meta_name, 'foo_bar_meta', 'meta_name');
is($slc->meta2_name, 'foo_bar_meta2', 'meta2_name');
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is($slc->license, <<'END_OF_LICENSE', 'license');
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done_testing;
1.897 grub2 2.02~beta2-9ubuntu1.14

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1.898 wheel 0.24.0-1~ubuntu1.1

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1.899 java-util 0.10.0

1.900 gcc-defaults 4.8.2-1ubuntu6

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1.901 caca 0.99.beta18-1ubuntu5.1

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* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
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#ifndef _COMPAT_POLL_H_
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typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLRERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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*/

#ifndef _BSD_WAITPID_H
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/* Clean out any potential issues */
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#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)	(!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)	(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)	(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG	0x80
#define WCOREDUMP(w) 	((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#if 0
    /* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif
```c
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ Sets an explicit
 .Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
 .El
 .Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
/* Version of client */
static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
 Attrib a;
 char *name;
 int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;

 if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
   (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
debu3f("request %u: open flags %d", id, pflags);
 flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+mode = permforcemode;
+old_umask = umask(0); /* so umask does not interfere */
+}
+logit("open \"%s\" flags %s mode 0%o",
+      name, string_from_portable(pflags), mode);
if (readonly &
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
    }
    }
    }
+if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
   "usage: %s [-eR] [-d start_directory] [-f log_facility] "
   "[-l log_level][-nt[-P blacklisted_requests] "
-    "[-p whitelisted_requests] [-u umask]\n"
+    "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
   " %s -Q protocol_feature\n",
   __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
+   "df:l:P:p:Q:u:m:cehR") != -1) { /* -Q protocol_feature */
    switch (ch) {
    case 'Q':
        if (strcasecmp(optarg, "requests") != 0) {
            @ @ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
            fatal("Invalid umask \"%s\"", optarg);
            (void)umask((mode_t)mask);
            break;
            +case 'm':
            /* Force permissions on file received via sftp */
            +permforce = 1;
            +permforcemode = strtol(optarg, &cp, 8);
            +if (permforcemode < 0 || permforcemode > 0777 ||
            +    *cp != \0' || (permforcemode == 0 &&
            +    errno != 0))
            +fatal("Invalid file mode \"%s\"", optarg);
            +break;


case 'h':
default:
sftp_server_usage();

1.907 libnet-ip-perl 1.26-1

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1.915 profile 1.5.0
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1.916 metrics 3.2.2

1.917 tribe 6.7.0

1.918 ingest-geoip 6.7.0
1.919 libtext-iconv-perl 1.7 5build2

1.920 python-certifi 2018.10.15-5.el7

1.920.1 Available under license:

This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCA CertificateFile.#

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***** END LICENSE BLOCK *****
%(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.921 jackson-databind 2.10.3

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.922 perl-digest 1.17-245.el7

1.923 ding-libs 0.2.1-27.el7

1.923.1 Available under license:

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1.925 java-compression 1.7.0

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

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but WITHOUT ANY WARRANTY; without even the implied warranty of
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GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.
This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don’t assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
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convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.935 rhino 1.7R5
1.935.1 Available under license :

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Preamble

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strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=20mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.==20

-- Nathan
=20

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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

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> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
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=20
thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

-- Nathan Neulinger EMail: nneul@um...
On Monday 01 October 2007, Neulinger, Nathan wrote:

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additional code, so whatever licensing y'all come up with is fine
by me.
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.
In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
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> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
   Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

---------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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-- Nathan
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University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
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> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
>>
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.
Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?
yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >>
> >> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> >> make the change now ?
> >
> >> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

----------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC((6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC((6.0.3790.3959); Mon, 1 Oct 2007 12:26:02 -0500
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-) 

-a

1.937 scala 2.11.12

1.937.1 Available under license:

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}
val x: ((Int, Int) => Int) = (((a, b)) => a)
                      ^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int) => Int) = (((a, !!)) => a)
                        ^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple3,
    or consider a pattern matching anonymous function: `\{ case (param1, ..., param3) => ... \}
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
                       ^

three errors found
Scala includes the Tools Tooltip library:

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1.938 d-bus 1.6.18-0ubuntu4.3

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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/DoubleConverter.java
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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/CharArrayConverter.java
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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/MissingCommandException.java
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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/internal/Maps.java
* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/NoConverter.java
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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/BigDecimalConverter.java
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jar/com/beust/jcommander/internal/Lists.java
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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/URIConverter.java

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2.7.4

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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 */
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 This package was put together by Yann Dirson <dirson@debian.org>,
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 Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003
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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Theodore Ts'o
23-June-2007

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Ty Coon, President of Vice

That's all there is to it!

# # This is a Makefile stub which handles the creation of BSD shared # libraries.
# # In order to use this stub, the following makefile variables must be defined.
# # BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
  @echo "MKDIR pic"
  @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
  $(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
  $(MV) pic/$(BSD_LIB) .
  $(RM) -f ../$(BSD_LIB)
  $(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
  @echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
  @$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$($(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB))
  @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs
Open Source Used In Tetration 3.5.1 9866

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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1.949 expect 5.45-5ubuntu1
1.949.1 Available under license :

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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.951 jersey-container-servlet-core 2.25.1
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1.960 json-schema-core 1.2.10

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Historically, the following people contributed to early versions of SWIG.
Peter Lomdahl, Brad Holian, Shujia Zhou, Niels Jensen, and Tim Germann at Los Alamos National Laboratory were the first users. Patrick Tullmann at the University of Utah suggested the idea of automatic documentation generation. John Schmidt and Kurtis Bleeker at the University of Utah tested out the early versions. Chris Johnson supported SWIG's developed at the University of Utah. John Buckman, Larry Virden, and Tom Schwaller provided valuable input on the first releases and improving the portability of SWIG. David Fletcher and Gary Holt have provided a great deal of input on improving SWIG's Perl5 implementation. Kevin Butler contributed the first Windows NT port.

Early bug reports and patches:
1.973 sed 4.2.1 10.el6

1.973.1 Available under license:

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Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen
wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
* fools (1.8)
* tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.
Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop
# frozen_string_literal: true
require 'rubygems/text'

class Gem::Licenses
    extend Gem::Text

    NONSTANDARD = 'Nonstandard'.freeze

    # Software Package Data Exchange (SPDX) standard open-source software
    # license identifiers
    LICENSE_IDENTIFIERS = %w(
        0BSD
        AAL
        ADSL
        AFL-1.1
        AFL-1.2
        AFL-2.0
        AFL-2.1
        AFL-3.0
        AGPL-1.0
    )
CUA-OPL-1.0
Caldera
ClArtistic
Condor-1.1
Crossword
CrystalStacker
Cube
D-FSL-1.0
DOC
DSDP
Dotseqn
ECL-1.0
ECL-2.0
EFL-1.0
EFL-2.0
EPL-1.0
EPL-2.0
EUDatagrid
EUPL-1.0
EUPL-1.1
EUPL-1.2
Entessa
ErlPL-1.1
Eurosym
FSFAP
FSFUL
FSFULLR
FTL
Fair
Frameworx-1.0
FreeImage
GFDL-1.1
GFDL-1.1-only
GFDL-1.1-or-later
GFDL-1.2
GFDL-1.2-only
GFDL-1.2-or-later
GFDL-1.3
GFDL-1.3-only
GFDL-1.3-or-later
GL2PS
GPL-1.0
GPL-1.0+
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0
GPL-2.0+
GPL-2.0-only
GPL-2.0-or-later
GPL-2.0-with-GCC-exception
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-3.0
GPL-3.0+
GPL-3.0-only
GPL-3.0-or-later
GPL-3.0-with-GCC-exception
GPL-3.0-with-autoconf-exception
Giftware
Glide
Gluixe
HPND
HaskellReport
IBM-pibs
ICU
IJG
IPA
IPL-1.0
ISC
ImageMagick
Imlib2
Info-ZIP
Intel
Intel-ACPI
Interbase-1.0
JSON
JasPer-2.0
LAL-1.2
LAL-1.3
LGPL-2.0
LGPL-2.0+
LGPL-2.0-only
LGPL-2.0-or-later
LGPL-2.1
LGPL-2.1+
LGPL-2.1-only
LGPL-2.1-or-later
LGPL-3.0
LGPL-3.0+
LGPL-3.0-only
LGPL-3.0-or-later
LGPLLR
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
LPPL-1.2
LPPL-1.3a
LPPL-1.3c
Latex2e
Leptonica
LiLiQ-P-1.1
LiLiQ-R-1.1
LiLiQ-Rplus-1.1
Libpng
MIT
MIT-CMU
MIT-advertising
MIT-enna
MIT-feh
MITNFA
MPL-1.0
MPL-1.1
MPL-2.0
MPL-2.0-no-copyleft-exception
MS-PL
MS-RL
MTLL
MakeIndex
MirOS
Motosoto
Multics
Mup
NASA-1.3
NBPL-1.0
NCSA
NGPL
NLOD-1.0
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSIL-3.0
NRL
NTP
Naumen
Net-SNMP
NetCDF
Newsletr
Nokia
Noweb
Nunit
OCCT-PL
OCLC-2.0
ODbL-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0
OLDAP-2.0.1
OLDAP-2.1
OLDAP-2.2
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SMPPL
SNIA
SPL-1.0
SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
StandardML-NJ
SugarCRM-1.1.3
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
UPL-1.0
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
VOSTROM
VSL-1.0
Vim
W3C
W3C-19980720
W3C-20150513
WTFPL
Watcom-1.0
WsuiPA
X11
XFree86-1.1
XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
curl
diffmark
dvipdfm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
wxWindows
xinetd
xpp
zlib-acknowledgement
).freeze

# exception identifiers
EXCEPTION_IDENTIFIERS = %w( 389-exception
Autoconf-exception-2.0
Autoconf-exception-3.0
Bison-exception-2.2
Bootloader-exception
CLISP-exception-2.0
Classpath-exception-2.0
DigiRule-FOSS-exception
FLTK-exception
Fawkes-Runtime-exception
Font-exception-2.0
GCC-exception-2.0
GCC-exception-3.1
LZMA-exception
Libtool-exception
Linux-syscall-note
Nokia-Qt-exception-1.1
OCCT-exception-1.0
Qwt-exception-1.0
WxWindows-exception-3.1
REGEXP = %r{\A
  (\s WITH \s #{Regexp.union(EXCEPTION_IDENTIFIERS)})?
  | #{NONSTANDARD}
  \Z
}ox.freeze

def self.match?(license)
  !REGEXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = LICENSE_IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end

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# frozen_string_literal: true

RSpec.describe "bundle licenses" do
  before :each do
    install_gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
    G
  end

  it "prints license information for all gems in the bundle" do
    bundle "licenses"

    loaded_bundler_spec = Bundler.load.specs["bundler"]
    expected = if !loaded_bundler_spec.empty?
      loaded_bundler_spec[0].license
    else
      "Unknown"
    end

    expect(out).to include("bundler: #{expected}")
    expect(out).to include("with_license: MIT")
  end

  it "performs an automatic bundle install" do
    gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
    G
  end
end
gem "with_license"
gem "foo"

bundle "config auto_install 1"
bundle :licenses
expect(out).to include("Installing foo 1.0")
end
end

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can/check_type/check_type.h::
can/container_of/container_of.h::
can/str/str.h::

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include/ruby/onigmo.h:
include/ruby/oniguruma.h:
regcomp.c:
regenc.c:
regenc.h:
regerror.c:
regint.h:
regparse.c:
regparse.h:
enc/ascii.c:
enc/big5.c:
enc/cp949.c:
enc/emacs_mule.c:
enc/encdb.c:
enc/euc_jp.c:
enc/euc_kr.c:
enc/euc_tw.c:
enc/gb18030.c:
enc/gb2312.c:
enc/gbk.c:
enc/iso_8859_1.c:
enc/iso_8859_10.c:
enc/iso_8859_11.c:
enc/iso_8859_13.c:
enc/iso_8859_14.c:
enc/iso_8859_15.c:
enc/iso_8859_16.c:
enc/iso_8859_2.c:
enc/iso_8859_3.c:
enc/iso_8859_4.c:
enc/iso_8859_5.c:
enc/iso_8859_6.c:
enc/iso_8859_7.c:
enc/iso_8859_8.c:
enc/iso_8859_9.c:
enc/koi8_r.c::
enc/koi8_u.c::
enc/shift_jis.c::
enc/unicode.c::
enc/us_ascii.c::
enc/utf_16be.c::
enc/utf_16le.c::
enc/utf_32be.c::
enc/utf_32le.c::
enc/utf_8.c::
enc/windows_1251.c::

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* https://github.com/k-takata/Onigmo/
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enc/trans/JIS/UCS%JISX0201-KANA.src::
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tool/config.sub::

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A C-program for MT19937, with initialization improved 2002/2/10. Coded by Takuji Nishimura and Makoto Matsumoto. This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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L. Peter Deutsch
ghost@aladdin.com

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The End

1.977 scala-logging_2.12 3.8.0
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 *
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 * Modification developed 2002-2009 by Guido Vollbeding.
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 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for
 * direct resolution reduction or enlargement without additional resampling:
 * NxN (N=1...16) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of
 * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
 * to yield the downscaled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain
 * point of view rather than the usual spatial domain point of view,
 * yielding significant computational savings and results at least
 * as good as common bilinear (averaging) spatial downsampling.
 *
 * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
 * lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

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/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

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/*
 * jquant2.c
 *
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 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jquant2.c
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IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
  then-part;
} else {
  else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:

struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator
is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore,
we want it to be reentrant so that it can be used by applications that process
multiple images concurrently. The following rules support these requirements:
1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpege.c and djpege.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpege/djpege but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/coderules.txt

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/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * pool-based allocation and freeing of memory;
* policy decisions about how to divide available memory among the
* virtual arrays;
* control logic for swapping virtual arrays between main memory and
  backing storage.
* The separate system-dependent file provides the actual backing-storage
  access code, and it contains the policy decision about how much total
  main memory to use.
* This file is system-dependent in the sense that some of its functions
  are unnecessary in some systems. For example, if there is enough virtual
  memory so that backing storage will never be used, much of the virtual
  array control logic could be removed. (Of course, if you have that much
  memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/memmgr.c
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/*
* jsimd_x86_64.c
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
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* This file contains the interface between the "normal" portions
  of the library and the SIMD implementations when running on a
  x86_64 architecture.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
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/*
* jfdctflt.c
* Copyright (C) 1994-1996, Thomas G. Lane.
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* For conditions of distribution and use, see the accompanying README file.
* This file contains a floating-point implementation of the
  forward DCT (Discrete Cosine Transform).
This implementation should be more accurate than either of the integer DCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

This file contains routines to read input images in PPM/PGM format. The extended 2-byte-per-sample raw PPM/PGM formats are supported. The PBMPPLUS library is NOT required to compile this software (but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins.
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
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*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdppm.c
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/*
 * jpegtran.c
 *
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 * Modifications:
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 *
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jpegtran.c
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TurboJPEG Java Wrapper

=================================

The TurboJPEG shared library can optionally be built with a Java Native
Interface wrapper, which allows the library to be loaded and used directly from
Java applications. The Java front end for this is defined in several classes
located under org/libjpeg/ turbojpeg. The source code for these Java
classes is licensed under a BSD-style license, so the files can be incorporated
directly into both open source and proprietary projects without restriction. A
Java archive (JAR) file containing these classes is also shipped with the
"official" distribution packages of libjpeg-turbo.

TIExample.java, which should also be located in the same directory as this
README file, demonstrates how to use the TurboJPEG Java API to compress and
decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate
image buffers or instantiate classes to hold the result of compress,
decompress, or transform operations. However, if you use these methods, then
be mindful of the amount of new data you are creating on the heap. It may be
necessary to manually invoke the garbage collector to prevent heap exhaustion
or to prevent performance degradation. Background garbage collection can kill
performance, particularly in a multi-threaded environment (Java pauses all
threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own
source and destination buffers, which allows you to re-use those buffers for
compressing/decompressing multiple images. If the image sequence you are
compressing or decompressing consists of images of the same size, then
pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or
turbojpeg.dll) is not installed under a system library directory or under a
directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will
need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
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 * For conditions of distribution and use, see the accompanying README file.
This include file defines the interface between the system-independent and system-dependent portions of the JPEG memory manager. No other modules need include it. (The system-independent portion is jmemmgr.c; there are several different versions of the system-dependent portion.)

This file works as-is for the system-dependent memory managers supplied in the IJG distribution. You may need to modify it if you write a custom memory manager. If system-dependent changes are needed in this file, the best method is to ifdef them based on a configuration symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR and USE_MAC_MEMMGR.

This file contains a very simple stand-alone application that displays the text in COM (comment) markers in a JFIF file. This may be useful as an example of the minimum logic needed to parse JPEG markers.

This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
  * Copyright (C) 1999-2006, MIYASAKA Masaru.
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
This file contains the forward-DCT management logic. This code selects a particular DCT implementation to be used, and it performs related housekeeping chores including coefficient quantization.

/*

This file contains inverse-DCT routines that produce reduced-size output: either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.

The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step with an 8-to-4 step that produces the four averages of two adjacent outputs (or an 8-to-2 step producing two averages of four outputs, for 2x2 output). These steps were derived by computing the corresponding values at the end of the normal LL&M code, then simplifying as much as possible.

1x1 is trivial: just take the DC coefficient divided by 8.

See jidctint.c for additional comments.
*/

/*

This file defines the error and message codes for the cjpeg/djpeg...
Open Source Used In Tetration 3.5.1 10223

* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.
Opened Source Used In Tetration 3.5.1 10224

/*
* jdatadst.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

;/*
*jcmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

; jsimdexj.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

;==========================================================================
; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT    .text  align=16
%define SEG_CONST   .rdata align=16
%else
%define SEG_TEXT    .text  align=16 public use32 class=CODE
%define SEG_CONST   .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT    .text  align=16
%endif
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)--------
; * Borland C++ (Win32)

; -- segment definition --
:
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -felf[64] -DELF ...)--------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
:
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name; foo() -> foo

%elifdef AOUT; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
:
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
%;define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -f macho -DMACHO ...)--
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC__; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; -----------------------------------------------

;===============================================================================

;--------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT                     dword           ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD    ; sizeof(INT)
%define INT_BIT                 DWORD_BIT       ; sizeof(INT)*BYTE_BIT

%define FP32                    dword           ; IEEE754 single
%define SIZEOF_FP32             SIZEOF_DWORD    ; sizeof(FP32)
%define FP32_BIT                DWORD_BIT       ; sizeof(FP32)*BYTE_BIT
%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; /******************************************************************************
;  External Symbol Name
; /******************************************************************************
%ifndef EXTN
%define EXTN(name) _ %+ name		; foo() -> _foo
%endif

; /******************************************************************************
;  Macros for position-independent code (PIC) support
; /******************************************************************************
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; ------------------------------------------
%ifndef GOT_SYMBOL,_MACHO_PIC_

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTIONSEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx resister.
call%%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust

%geteip:
movecx, POINTER [esp]
ret

%%adjust:
pushebp
xor ebp, ebp ; ebp = 0
%ifidni %1,ebx ; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
; db0x8D,0x9C, 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
; db0x8D,0x8C, 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%ref:mov%1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ -----------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1 externGOT_SYMBOL
call%%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%geteip:
mov%1, POINTER [esp]
ret
%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ -----------
%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC -------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC -------------------------------

; --------------------------------------------------------------------------
; Align the next instruction on {2,4,8,16...}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y)  (((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%
%bs:
times MSKLE($,$1),%2) & MSKLE(16,FILLB($,$1)) & FILLB($,$1) / db 0x90 ; nop
times MSKLE($,$1),%2) & FILLB($,$1)/9 \
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE($,$1),%2) & FILLB($,$1)/7 \
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE($,$1),%2) & FILLB($,$1)/6 \
    db 0x8D,0xAD,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE($,$1),%2) & FILLB($,$1)/4 \
    db 0x8D,0x6C,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE($,$1),%2) & FILLB($,$1)/3 \
    db 0x8D,0x6D,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE($,$1),%2) & FILLB($,$1)/2 \
    db 0x8B,0xED,0x00,0x00,0x00,0x00,0x00 ; mov ebp,ebp
times MSKLE($,$1),%2) & FILLB($,$1)/1 \

db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64
%
imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add    rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add    rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0

%endif

%ifdef __x86_64__
%endif
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif
%endif

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jdmerge.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
This file contains code for merged upsampling/color conversion.

This file combines functions from jdsample.c and jdcolor.c; read those files first to understand what's going on.

When the chroma components are to be upsampled by simple replication (i.e., box filtering), we can save some work in color conversion by calculating all the output pixels corresponding to a pair of chroma samples at one time. In the conversion equations

\[ R = Y + K1 \times Cr \]
\[ G = Y + K2 \times Cb + K3 \times Cr \]
\[ B = Y + K4 \times Cb \]

* only the Y term varies among the group of pixels corresponding to a pair of chroma samples, so the rest of the terms can be calculated just once.

* At typical sampling ratios, this eliminates half or three-quarters of the multiplications needed for color conversion.

This file currently provides implementations for the following cases:

* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are the only common cases. (For uncommon cases we fall back on the more general code in jdsample.c and jdcolor.c.)

This file defines the error and message codes for the JPEG library. Edit this file to add new codes, or to translate the message strings to some other language.

A set of error-reporting macros are defined too. Some applications using the JPEG library may wish to include this file to get the error codes and/or the macros.
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jerror.h

No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
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 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/cjpeg.c

No license file was found, but licenses were detected in source scan.

/*
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 *
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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/TJBench.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjbench.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
*
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
Open Source Used In Tetration 3.5.1  10236

* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/transupp.h

No license file was found, but licenses were detected in source scan.

%ifarch x86_64
%define __lib lib64
%else
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#-->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated
derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

```bash
#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean

rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
* jdarith.c
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains portable arithmetic entropy decoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
  /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.
  
  /*
  * Copyright (C)2011 D. R. Commander. All Rights Reserved.
  *
  * Redistribution and use in source and binary forms, with or without
  * modification, are permitted provided that the following conditions are met:
  *
  * - Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * - Redistributions in binary form must reproduce the above copyright notice,
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.
  * - Neither the name of the libjpeg-turbo Project nor the names of its
    contributors may be used to endorse or promote products derived from this
    software without specific prior written permission.
  *
  * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
  * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
  * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  * POSSIBILITY OF SUCH DAMAGE.
  */

package org.libjpegturbo.turbojpeg;
final class TJLoader {
  static void load() {
    System.loadLibrary("@TURBOJPEG_DLL_NAME@");
  }
};

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaiRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAij/libjpeg-turbo-1.2.90/java/org/libjpeg/turbo/TJLoader.java.in
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaiRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAij/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaiRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAij/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/transupp.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math, * accuracy is lost due to imprecise representation of the scaled * quantization values. The smaller the quantization table entry, the less * precise the scaled value, so this implementation does worse with high-* quality-setting files than with low-quality ones.
* /

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

; j dct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples
%
%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)
%
%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; ---------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/*
* rdswitch.c
This file was part of the Independent JPEG Group's software:
Copyright (C) 1991-1996, Thomas G. Lane.

Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file contains routines to process some of cjpeg's more complicated command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors

Found in path(s):

No license file was found, but licenses were detected in source scan.

This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains application interface code for the compression half of the JPEG library. These are the "standard" API routines that are used in the normal full-compression case. They are not used by a transcoding-only application. Note that if an application links in jpeg_start_compress, it will end up linking in the entire compressor.
We thus must separate this file from jcapimin.c to avoid linking the whole compression library into a transcoder.

Found in path(s):

No license file was found, but licenses were detected in source scan.

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FfAR/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJAJ/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jdapistd.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%endif
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------
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Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,    *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                      *
*****************************************************************************
*
* We are required to state that
*    "The Graphics Interchange Format(c) is the Copyright property of
*    CompuServe Incorporated. GIF(sm) is a Service Mark property of
*    CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdgif.c
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/*
 * wrrle.c
 *
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 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrrle.c
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/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/
/
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
/*/ 
/
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/ 
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/
/
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/doc/html/jquery.js
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/
* jdatasrc.c
*
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* Modifications:
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications, some will want to use a different source manager. IMPORTANT: we assume that fread() will correctly transcribe an array of JOCTETs from 8-bit-wide elements on external storage. If char is wider than 8 bits on your machine, you may need to do some tweaking.

*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcolor.c

No license file was found, but licenses were detected in source scan.

/ *
* jdcolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcolor.c

No license file was found, but licenses were detected in source scan.

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* POSSIBILITY OF SUCH DAMAGE.
*/

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* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-turbojpeg-jni.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/java/TJExample.java

No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 * 
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */
* This code contributed by James Arthur Boucher.
* /

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

/ *
* jdatasrc-tj.c
* 
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* 
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETS from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdatasrc-tj.c
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/ *
* djpeg.c
* 
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* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/djpeg.c
no license file was found, but licenses were detected in source scan.

*/
* jdcoefct.c
*
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* modifications:
* copyright (c) 2010, d. r. commander.
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* *
* this file contains the coefficient buffer controller for decompression.
* this controller is the top level of the jpeg decompressor proper.
* the coefficient buffer lies between entropy decoding and inverse-dct steps.
* *
* in buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* also, the input side (only) is used when reading a file for transcoding.
*/

found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcoefct.c
no license file was found, but licenses were detected in source scan.

*/
* jdsample.c
*
* this file was part of the independent jpeg group's software:
* copyright (c) 1991-1996, thomas g. lane.
* modifications:
* copyright 2009 pierre ossman <ossman@cendio.se> for cendio ab
* copyright (c) 2010, d. r. commander.
* for conditions of distribution and use, see the accompanying readme file.
This file contains upsampling routines.

Upsampling input data is counted in "row groups". A row group
is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
sample rows of each component. Upsampling will normally produce
max_v_samp_factor pixel rows from each row group (but this could vary
if the upsampler is applying a scale factor of its own).

An excellent reference for image resampling is

*/

Found in path(s):
/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jdsample.c
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jdhuff.h

This file was part of the Independent JPEG Group's software:
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This file contains declarations for Huffman entropy decoding routines
that are shared between the sequential decoder (jdhuff.c) and the
progressive decoder (jdphuff.c). No other modules need to see these.

Found in path(s):
/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jdhuff.h
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Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJa/libjpeg-turbo-1.2.90/release/License.rtf
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/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJa/libjpeg-turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jpegint.h

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# POSSIBILITY OF SUCH DAMAGE.

#!/bin/sh

if [ ! ""id -u"" = "0" ]; then
  echo "ERROR: This script must be executed as root"
  exit 1
"
PACKAGE=\@PACKAGE\_NAME\@  
MACPACKAGE=com.$PACKAGE.$PACKAGE  
RECEIPT=/Library/Receipts/$PACKAGE.pkg  

LSBOM=  
if [ -d "$RECEIPT" ]; then  
LSBOM='lsbom -s -f -l "$RECEIPT"/Contents/Archive.bom'  
else  
LSBOM='pkgutil --files "$MACPACKAGE"'  
fi  

mylsbom()  
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)  
}  

echo Removing package files ...  
EXITSTATUS=0  
pushd /  
mylsbom | while read file; do  
if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi  
done  
popd  

echo Removing package directories ...  
if [ -d /opt/$PACKAGE/bin ]; then  
rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1  
fi  
if [ -d /opt/$PACKAGE/lib ]; then  
rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1  
fi  
if [ -d /opt/$PACKAGE/include ]; then  
rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1  
fi  
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1  
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1  
if [ -d /opt/$PACKAGE/man/man1 ]; then  
rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1  
fi  
if [ -d /opt/$PACKAGE/man ]; then  
rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1  
fi  
if [ -d /opt/$PACKAGE/classes ]; then  
rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1  
fi  
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
echo Removing package receipt ...
rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
echo Forgetting package $MACPACKAGE ...
pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/release/uninstall.in
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/*
 * jquant1.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FARf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***
The IJG distribution contains two parts:

* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.
*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed data stream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple
smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color). [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.
The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is
advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsamples data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of
precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.
   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.
Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data
          |              |               |
          ------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
  |-- Preprocessing controller --|
     |-- Downsampling
Main controller --|
     |-- Forward DCT, quantize
     |-- Coefficient controller --|
          |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during
typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call.
For progressive JPEG, the same DCT blocks are fed to the entropy coder
during each pass, and the coder must emit the appropriate subset of
coefficients.

In addition to the above objects, the compression library includes these
objects:

* Master control: determines the number of passes required, controls overall
  and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted
  by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
  destination (e.g., a file). The destination manager supplied with the
  library knows how to write to a stdio stream or to a memory buffer;
  for other behaviors, the surrounding application may provide its own
  destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays
  (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages;
  determines handling of nonfatal errors. The surrounding application may
  override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports.
  This object represents an optional callback to the surrounding application:
  if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are
defined as separate objects in order to simplify application-specific
customization of the JPEG library. A surrounding application may override
individual methods or supply its own all-new implementation of one of these
objects. The object interfaces for these objects are therefore treated as
part of the application interface of the library, whereas the other objects
are internal to the library.

The error handler and memory manager are shared by JPEG compression and
decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
    |-- Entropy decoding
    |-- Coefficient controller --|
```
As before, this diagram also represents typical control flow. The objects shown are:

* **Main controller:** buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller’s primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* **Coefficient controller:** buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* **Entropy decoding:** Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* **Dequantization and inverse DCT:** like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* **Postprocessing controller:** buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* **Upsampling:** restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly
sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one row of pixels at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.
As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller’s DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.
No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE; /* a pixel component value, 0..MAXJSAMPLE */
typedef JSAMPLE *JSAMPROW; /* ptr to a row of samples */
typedef JSAMPARRAY *JSAMPIMAGE; /* ptr to a list of color-component arrays */
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently.
because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.
On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are
specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and
it speeds up operations whenever malloc/free are slow (as they often are).
The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)
Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all
of the virtual arrays at once. Therefore, there isn’t a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don’t bother to factor in the space needed for small objects, on the grounds that it isn’t worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoeft.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code
likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MS-DOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destroy (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/structure.txt

No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
 to include only information relevant to libjpeg-turbo, to wordsmith certain
 sections, and to remove impolitic language that existed in the libjpeg v8
 README. It is included only for reference. Please see README-turbo.txt for
 information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
============================================

This distribution contains a release of the Independent JPEG Group's free JPEG
software. You are welcome to redistribute this software and to use it for any
purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
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OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression.
artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpegin" and "djpegin", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==============

In plain English:

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2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that
you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

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(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES
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We recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at http://www.ijg.org/files/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still
Image Data Compression Standard" by William B. Pennebaker and Joan L.
Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG
standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual
specification, while Part 2 covers compliance testing methods. Part 1 is
titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
================
The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWvTFaR/Elibjpegturbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/README

No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems.
without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "i" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to
0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
======

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdecfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in
valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.
[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUTFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).
1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjeEncodeYUV().

[2] libjpeg-turbo’s accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is \( \geq 98 \) and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for
JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)
[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.
0.0.93

======

[1] 2982659, Fixed x86-64 build on FreeBSD systems
[2] 2988188: Added support for Windows 64-bit systems

0.0.91

======

[1] Added documentation to .deb packages
[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90

======

Initial release

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */
/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

/*
 * jdctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it’s more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima’s algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
* /

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jconfig.txt
* *
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* *
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* *
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
* /

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#undef void char

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
#undef const

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H
/* For 80x86 machines, you need to define NEED_FAR_POINTERS, */
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less */
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to */
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI */
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, */
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you */
* actually get "missing structure definition" warnings or errors while */
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__
/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN
/* prevent jmorecfg.h from redefining it */
#endif

/* */
* The following options affect code selection within the JPEG library, */
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be */
* defined unless JPEG_INTERNALS has been defined.
*/
#ifndef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical */
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift, */
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command line, rather than using stdin and optionally stdin. You MUST do this if your system can't cope with binary I/O to stdin/stdout. See comments at head of cjpegc.c or djpegc.c. */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files. This is crucial under MS-DOS, where the temporary "files" may be areas of extended memory; on most other systems it's not as important. */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb"). This is necessary on systems that distinguish text files from binary files, and is harmless on most systems that don't. If you have one of the rare systems that complains about the "b" spec, define this symbol. */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpegc/djpegc. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

License: IJG

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo.spec

No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmaker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdinput.c

No license file was found, but licenses were detected in source scan.
* wrgif.c
* 
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in GIF format.
* 
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.                  *
**************************************************************************
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
*/
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
* 
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.e17-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* jdcolext.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains Huffman entropy encoding routines.
* *
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken care of by the standard jconfig symbols, but on really weird systems you may have to edit this file.)

* NOTE: this file is NOT intended to be included by applications using the JPEG library. Most applications need only include jpeglib.h.

*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jinclude.h

No license file was found, but licenses were detected in source scan.

/**
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (j dctmgr.c, jdctmgr.c) and the individual DCT algorithms. The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdct.h

No license file was found, but licenses were detected in source scan.

/**
 * jprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling, and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows as required by the downsampler. See the comments at the head of jcsample.c for the downsampler's needs.
 */
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/jcprepct.c

No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/jccolor.c

No license file was found, but licenses were detected in source scan.

\{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf360
{\fonttbl\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
\margl1440\margr1440\vieww26380\viewh15840\viewkind0
\deftab720
\pard\pardeftab720\ql\qnatural
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*/
*/
*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

*/
*/
*
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines for progressive JPEG.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJAJ/libjpeg-turbo-1.2.90/jdphuff.c

No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to write output images in Targa format.
* *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* *
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJAJ/libjpeg-turbo-1.2.90/wrtarga.c

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

**OVERVIEW**

==========
The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

**BASIC LIBRARY USAGE**

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for
example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

   A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the
application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```
where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width Width of image, in pixels
- image_height Height of image, in pixels
- input_components Number of color channels (samples per pixel)
- in_color_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like
"while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = &image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. `jpeg_finish_compress(...);`

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. `jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will
not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call
jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
```
... if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

   Typical code for this step is just

   jpeg_read_header(&cinfo, TRUE);

   This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

   More complex code is necessary if
   * A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
   * Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

   It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.
4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap
output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the
After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

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Compression parameter selection
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This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents
very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

**jpeg_set_linear_quality** (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as **jpeg_set_quality()** except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

**int jpeg_quality_scaling** (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

**jpeg_default_qtables** (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

**jpeg_add_quant_table** (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like “#if JPEG_LIB_VERSION >= 61” is the right test.

**jpeg_simple_progression** (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.
Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```c
int q_scale_factor[NUM_QUANT_TBL];
```

[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

```c
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
```

```c
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```c
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

```c
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBL];
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBL];
```

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_cale_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

**J DIMENSION jpeg_width**
Actual dimensions of output image.

**J DIMENSION jpeg_height**

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

```c
int component_id
```
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

```c
int h_samp_factor
int v_samp_factor
```
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling
factors indicate a higher-resolution component; many people find
this behavior quite unintuitive. The default values are 2,2 for
luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

```c
int quant_tbl_no
```
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

```c
int dc_tbl_no
int ac_tbl_no
```
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

```c
int component_index
```
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection

```
Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
```
(Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width	Width and height of image
JDIMENSION image_height
int num_components	Number of color components
J_COLOR_SPACE jpeg_color_space	Colors of image
boolean saw_JFIF_marker	TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version	Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit	Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker	TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform	Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such
as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, color-mapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FSFloyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-color-map case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

**J_DCT_METHOD dct_method**
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB => YCbCr and CMYK => YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorsapce(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorsapce() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and
jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an
APPn marker of your own devising to identify the colorspace --- see "Special
markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorsphere(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.
Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;  /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:
init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension

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Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the
compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply
returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned.

The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.
Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found
Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here “multi-scan” means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library’s buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
```
jpeg_start_output()/* start a new output pass */
for (all scanlines in image) {
    jpeg_read_scanlines()
    display scanlines
}
jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce
The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will 
wait until that scan starts to arrive before producing any output. (To avoid 
an infinite loop, the target scan number is automatically reset to the last 
scan number when the end of image is reached. Thus, if you specify a large 
target scan number, the library will just absorb the entire input file and 
then perform an output pass. This is effectively the same as what 
jpeg_start_decompress() does when you don’t select buffered-image mode.) 
When you pass a target scan number equal to the current input scan number, 
the image is displayed no faster than the current input scan arrives. The 
final possibility is to pass a target scan number less than the current input 
scan number; this disables the input/output interlock and causes the output 
processor to simply display whatever it finds in the image buffer, without 
waiting for input. (However, the library will not accept a target scan 
number less than one, so you can’t avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance 
through the image, jpeg_consume_input() will store data into the buffered 
image beyond the point at which the output processing is reading data out 
again. If the input arrives fast enough, it may "wrap around" the buffer to 
the point where the input is more than one whole scan ahead of the output. 
If the output processing simply proceeds through its display pass without 
paying attention to the input, the effect seen on-screen is that the lower 
part of the image is one or more scans better in quality than the upper part. 
Then, when the next output scan is started, you have a choice of what target 
scan number to use. The recommended choice is to use the current input scan 
number at that time, which implies that you’ve skipped the output scans 
corresponding to the input scans that were completed while you processed the 
previous output scan. In this way, the decoder automatically adapts its 
speed to the arriving data, by skipping output scans as necessary to keep up 
with the arriving data.

When using this strategy, you’ll want to be sure that you perform a final 
output pass after receiving all the data; otherwise your last display may not 
be full quality across the whole screen. So the right outer loop logic is 
something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This 
arangement makes it simple to use higher-quality decoding parameters 
for the final pass. But if you don’t want to use special parameters for 
the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```
absorb any waiting input by calling jpeg_consume_input()
jpeg_start_output(&cinfo, cinfo.input_scan_number);
...
jpeg_finish_output()
if (jpeg_input_complete(&cinfo) &&
    cinfo.input_scan_number == cinfo.output_scan_number)
    break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with
buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn’t fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn’t already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very “fuzzy” look instead of the very “blocky” look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.
When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.

The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube. 
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.

2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
- enable_external_quant
- enable_2pass_quant

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)
Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not
using buffered-image mode, but in that case it's basically a no-op after the 
initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple 
images. This saves a small amount of time per image by eliminating the 
"create" and "destroy" operations, but that isn't the real purpose of the 
feature. Rather, reuse of an object provides support for abbreviated JPEG 
datastreams. Object reuse can also simplify processing a series of images in 
a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization 
and Huffman tables. In a situation where many images will be stored or 
transmitted with identical tables, this may represent an annoying overhead. 
The JPEG standard therefore permits tables to be omitted. The standard 
defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode 
  the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or 
  all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams 
  contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) 
into the decoder beforehand. This can be accomplished by reading a separate 
tables-only file. A variant scheme uses a series of images in which the first 
image is an interchange (complete) datastream, while subsequent ones are 
abbreviated and rely on the tables loaded by the first image. It is assumed 
that once the decoder has read a table, it will remember that table until a 
new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate 
the correct tables with an abbreviated image. While abbreviated datastreams 
can be useful in a closed environment, their use is strongly discouraged in 
any situation where data exchange with other applications might be needed. 
Caveat designer.

The JPEG library provides support for reading and writing any combination of 
tables-only datastreams and abbreviated images. In both compression and 
decompression objects, a quantization or Huffman table will be retained for 
the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the 
compressor not to emit some or all of the tables it is using. Each 
quantization and Huffman table struct contains a boolean field "sent_table", 

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which normally is initialized to FALSE. For each table used by the image, the
header-writing process emits the table and sets sent_table = TRUE unless it is
already TRUE. (In normal usage, this prevents outputting the same table
definition multiple times, as would otherwise occur because the chroma
components typically share tables.) Thus, setting this field to TRUE before
calling jpeg_start_compress() will prevent the table from being written at
all.

If you want to create a "pure" abbreviated image file containing no tables,
just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the
tables. If you want to emit some but not all tables, you'll need to set the
individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress()
with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress()
will force all the sent_table fields to FALSE. (This is a safety feature to
prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you
normally would, but instead of calling jpeg_start_compress() and so on, call
jpeg_write_tables(&cinfo). This will write an abbreviated datastream
containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will
be emitted unless their sent_tables flag is already TRUE, and then all the
sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files
is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.
In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
  cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL*/
for (i = 0; i < 64; i++) {
  /* Qtable[] is desired quantization table, in natural array order */
  quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
  cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL*/
for (i = 1; i <= 16; i++) {
  /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
  huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
  /* symbols[] is the list of Huffman symbols, in code-length order */
  huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.) When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't
flush the output buffer at term_destination() time. This would speed things
up by some trifling amount. Of course, you'd need to remember to flush the
buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
--------------

Some applications may need to insert or extract special data in the JPEG
datastream. The JPEG standard provides marker types "COM" (comment) and
"APP0" through "APP15" (application) to hold application-specific data.
Unfortunately, the use of these markers is not specified by the standard.
COM markers are fairly widely used to hold user-supplied text. The JFIF file
format spec uses APP0 markers with specified initial strings to hold certain
data. Adobe applications use APP14 markers beginning with the string "Adobe"
for miscellaneous data. Other APPn markers are rarely seen, but might
contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

    jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.
If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

```
jpeg_save_markers(cinfo, marker_code, length_limit)
```

where `marker_code` is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.
A simple example of an external COM processor can be found in djpeg.c. Also, see jpe tran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
-------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colors paces() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and
cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the
dimensions of the data you are supplying, it's wise to set them
explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY.
The scanlines count passed to and returned from jpeg_write_raw_data is
measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say
v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines
value must be at least max_v_samp_factor*DCTSIZE, and the return value will
be exactly that amount (or possibly some multiple of that amount, in future
library versions). This is true even on the last call at the bottom of the
image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each
component as
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCTSIZE samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsamped_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.
Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below,
and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg Suppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)
To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

-----------------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

---------------

This section covers some key facts about the JPEG library's built-in memory
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manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works
with "strip" buffers that are as wide as the image but just a few rows high.
Some operating modes (eg, two-pass color quantization) require full-image
buffers. Such buffers are treated as "virtual arrays": only the current strip
need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no
temporary files are used; virtual arrays are simply malloc()'d. Images bigger
than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors
and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting.
Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-----------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual colors will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need
for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
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A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
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The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
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The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.
Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/libjpeg.txt
  No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcomapi.c
  No license file was found, but licenses were detected in source scan.

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/ljibjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/ljibjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/ljibjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/ljibjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/ljibjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/ljibjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/ljibjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/ljibjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

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* 1. The origin of this software must not be misrepresented; you must not
* 2. Altered source versions must be plainly marked as such, and must not be
* 3. This notice may not be removed or altered from any source distribution.
/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 */
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*! 
* jcmaster.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*! 
* jsimd_none.c
* 
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
*/
* This file contains stubs for when there is no SIMD support available.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jsimd_none.c

No license file was found, but licenses were detected in source scan.

/*
* jcparam.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcparam.c

No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info

Found in path(s):
*/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7fAR/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 */
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.760/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWiT7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.760/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWiT7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86,
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
broader range of users and developers.

******************************************************************************
** License
******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by
libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and
associated test programs bear a similar license, which is reproduced below:

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- Redistributions in binary form must reproduce the above copyright notice,
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CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
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ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

******************************************************************************
** Using libjpeg-turbo
******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing
and decompressing JPEG images in memory. It also provides some functionality
that would not be straightforward to achieve using the underlying libjpeg
API, such as generating planar YUV images and performing multiple
simultaneous lossless transforms on an image. The Java interface for
libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

-----------------------------
Installation Directory
-----------------------------

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Unix and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

-----------------------------
Replacing libjpeg at Run Time
-----------------------------

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys   0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys   0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)
System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

-----------------------------------------

Open Source Used In Tetration 3.5.1 10385
For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Unix systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

\[
\text{CPATH}=/opt/libjpeg-turbo/include
\]
and
\[
\text{LIBRARY}\_\text{PATH}=/opt/libjpeg-turbo/\{\text{lib}\}
\]

(\{\text{lib}\} = \text{lib32} or \text{lib64}, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

\[
\text{CPATH}=\text{/c/libjpeg-turbo-gcc[64]/include}
\]
and
\[
\text{LIBRARY}\_\text{PATH}=\text{/c/libjpeg-turbo-gcc[64]/lib}
\]

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Unix systems, you would still need to manipulate \text{LD\_LIBRARY\_PATH} or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass \text{-R /opt/libjpeg-turbo/\{lib\}} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Unix or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

\[
\text{-Wl,-Bstatic -ljpeg -Wl,-Bdynamic}
\]

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add \text{c:\libjpeg-turbo[64]\include} to the system or user \text{INCLUDE} environment variable and \text{c:\libjpeg-turbo[64]\lib} to the system or user \text{LIB} environment variable, and then link against either \text{jpeg.lib} (to use the DLL version of libjpeg-turbo) or \text{jpeg-static.lib} (to use the static version of libjpeg-turbo.)

\[
\text{Colourspace Extensions}
\]

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new
colorsce constants:

JCS_EXT_RGB  /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR  /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jctest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
libjpeg v7 and v8 API/ABI Emulation
```

With libjpeg v7 and v8, new features were added that necessitated extending the
compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
  See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
  Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option
-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
  cinfo.scale_num and cinfo.scale_denom are silently ignored.
  There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
  cinfo.block_size is silently ignored.
  SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
  cinfo.do_fancy_downsampling is silently ignored.
  This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
  This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
  This requires the SmartScale feature, which is not supported.
What About libjpeg v9?

Libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

In-Memory Source/Destination Managers

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built...
against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(),
then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory
source/destination manager functions. See their respective man pages for more
details.

*******************************************************************************
**     Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg
v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to
be identical (the accuracy of the floating point DCT/IDCT is constant when
using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on
the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is
still using the same algorithms as libjpeg v6b, so there are several specific
cases in which libjpeg-turbo cannot be expected to produce the same output as
libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8
implements those scaling algorithms a bit differently than libjpeg v6b does,
and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this
with its DCT/IDCT scaling algorithms rather than with a separate
downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to
improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
"non-smooth") chrominance upsampling, because libjpeg v8 does not support
merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

Restart Markers
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

Fast Integer Forward DCT at High Quality Levels

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

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/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */
/* Portions of this code are based on the PBMPLUS library, which is:

**

** Copyright (C) 1988 by Jef Poskanzer.

**

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** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.

*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdcolmap.c

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/*

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*

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* POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/bmp.h
No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjljlibjpeg-turbo-1.2.90/java/org/libjpeg/turbo/TJTransform.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjljlibjpeg-turbo-1.2.90/tjutil.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjljlibjpeg-turbo-1.2.90/tjutil.h

No license file was found, but licenses were detected in source scan.

/*
 * jsimd_arm.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 */
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdapimin.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 *
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
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* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcpam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcapimin.c
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/*
* jccolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
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/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
*/
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdpostct.c
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/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jfdctint.c
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/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least

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* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcsample.c
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Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jiss2int.asm
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* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfmmxint.asm
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#License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymballic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
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1.982 elfutils 0.179-r0
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1.986 python-pillow 2.0.0 19.gitd1c6db8.el7

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1.992 llvm 3.4-3.el6

1.992.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.
define void @autogen_SD4739(i8*) {  
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246:  ; preds = %CF246, %BB
  %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248:  ; preds = %CF248, %CF246
  store i8 %Sl163, i8* %0
  br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
; FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {  
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vpadd 32(%rsi), %zmm1, %zmm1
; CHECK-NEXT:    vmovdqa %zmm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, %4
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, %3
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: pmaddwd_32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, %16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, %16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0
}
define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:  vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:  vmovdqa64 %zmm1, 64(%rdx)
    ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:     # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:     # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:     vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:     vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:     vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:     vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:     vpmaddwd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:     vpmaddwd %ymm4, %ymm3, %ymm4
; CHECK-NEXT:     vpmaddwd %ymm5, %ymm4, %ymm5
; CHECK-NEXT:     vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:     vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:     vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:     vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:     vextracti128 %1, %ymm0, %xmm1
; CHECK-NEXT:     vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:     vpadd %ymm1, %ymmm, %ymm0
; CHECK-NEXT:     vpaddd %ymm0, %ymm0, %xmm0
; CHECK-NEXT:     vzeroupper
; CHECK-NEXT:     retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

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define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB9_1
; CHECK-NEXT:  .LBB9_2: # %middle.block
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %xmm0
; CHECK-NEXT:  vpaclw {{.*#+}} %zmm0 = %zmm1[1,2,3,4]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:

%3 = zext i32 %2 to i64
br label %vector.body

vector.body:

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi [ <32 x i32>, %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:  vpsadbw %ymm1, %ymm2, %ymm1
  ; CHECK-NEXT:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB10_1: # %vector.body
  ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:  vmovdqu a+1024(%rax), %ymm2
  ; CHECK-NEXT:  vpsadbw b+1024(%rax), %ymm2
  ; CHECK-NEXT:  vpadding %ymm1, %ymm2
  ; CHECK-NEXT:  vpacking %ymm1, %ymm2

; CHECK-NEXT:    add $4, %rax
; CHECK-NEXT:    jne .LBB10_1
; CHECK-NEXT:    # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm0, %ymm0
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm0, %ymm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitializer, %6
    %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
    %10 = add nsw <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:
    %.lcssa = phi <16 x i32> [ %10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:    .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB11_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    addq $4, %rax
  ; CHECK-NEXT:    jne .LBB11_1
  ; CHECK-NEXT:  # %bb.2: # %middle.block
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {false} %xmm1 = %xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {false} %xmm1 = %xmm0[1,1,2,3]
  ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
entry:
  br label %vector.body
}

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4

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%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [%10, %vector.body]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sbto16f32_256:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1
  ; CHECK-NEXT: vpmovm2d %k1, %ymm0
  ; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
  ; CHECK-NEXT: vpmovm2d %k0, %ymm1
  ; CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
  ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: sbto16f32_512:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: vpmovm2d %k0, %zmm0  
; CHECK-NEXT: vcvtqd2ps %zmm0, %zmm0  
; CHECK-NEXT: vmovaps %zmm0, (%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%

%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = sitofp <16 x i1> %mask to <16 x float>  
store <16 x float> %1, <16 x float>* %res  
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
; CHECK-LABEL: sbto16f64_256:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: kshiftrw $8, %k0, %k1  
; CHECK-NEXT: vpmovm2d %k1, %ymm0  
; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm1  
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0  
; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm0  
; CHECK-NEXT: vpmovm2d %k0, %ymm2  
; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm3  
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2  
; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm2  
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)  
; CHECK-NEXT: vmovaps %ymm3, (%rdi)  
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)  
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%

%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = sitofp <16 x i1> %mask to <16 x double>  
store <16 x double> %1, <16 x double>* %res  
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: sbto16f64_512:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: vpmovm2d %k0, %zmm0  
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {  
; CHECK-LABEL: ubto16f32_256:  
; CHECK:       # %bb.0:  
; CHECK-NEXT:    vpmovw2m %ymm0, %k0  
; CHECK-NEXT:    kshiftrw $8, %k0, %k1  
; CHECK-NEXT:    vpmovm2d %k1, %ymmm0  
; CHECK-NEXT:    vpsrlq $31, %ymmm0, %ymmm0  
; CHECK-NEXT:    vcvtq2ps %ymmm0, %ymmm0  
; CHECK-NEXT:    vpmovm2d %k0, %ymmm1  
; CHECK-NEXT:    vpsrlq $31, %ymmm1, %ymmm1  
; CHECK-NEXT:    vcvtq2ps %ymmm1, %ymmm1  
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)  
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)  
; CHECK-NEXT:    vzeroupper  
; CHECK-NEXT:    retq  
%mask = icmp slt <16 x i16> %a, zeroinitialize  
%1 = uitofp <16 x i1> %mask to <16 x double>  
store <16 x double> %1, <16 x double>* %res  
ret void }  

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f32_512:  
; CHECK:       # %bb.0:  
; CHECK-NEXT:    vpmovw2m %ymm0, %k0  
; CHECK-NEXT:    vpmovm2d %k0, %ymmm0  
; CHECK-NEXT:    vpsrlq $31, %ymmm0, %ymmm0  
; CHECK-NEXT:    vcvtq2ps %ymmm0, %ymmm0  
; CHECK-NEXT:    vmovaps %ymmm0, %ymmm1  
; CHECK-NEXT:    vpmovm2d %ymmm1, (%rdi)  
; CHECK-NEXT:    vmovaps %ymmm0, 32(%rdi)  
; CHECK-NEXT:    vzeroupper  
; CHECK-NEXT:    retq  
%mask = icmp slt <16 x i16> %a, zeroinitialize  
%1 = uitofp <16 x i1> %mask to <16 x float>  
store <16 x float> %1, <16 x float>* %res  
ret void }
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:     # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtvd2pd %xmm0, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtvd2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpmovm2d %k0, %ymm3
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtvd2pd %xmm2, %ymm2
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtvd2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:     # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtvd2pd %xmm0, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtvd2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vcvtvd2pd %ymm1, (,%rdi)
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (,%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:  # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu16 %ymm1, %ymm1
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:  # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vmovdqu16 %zmm1, %zmm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:  # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu16 %ymm1, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtfps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vpmovdqu16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitlizer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdqa (%rsi), %ymm2
; CHECK-NEXT: vpmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw {.*#+} ymm4 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-NEXT: vpunpckhbw {.*#+} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpunpcklbw {.*#+} ymm4 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpunpckhbw {.*#+} ymm2 = ymm0[0,0,1,1,ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT: vpunpckhbw {.*#+} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: mul512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} %zmm2 =
      zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
      zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],
      zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],
  ; CHECK-NEXT:    vmovdqa64 {{.*#+}} %zmm3 =
      zmm0[8],zmm0[9],zmm1[8],zmm1[9],zmm0[10],zmm1[10],zmm0[11],zmm1[11],zmm0[12],zmm1[12],zmm0[12],
      zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],
      zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} %zmm4 =
      ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],
      ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],
      ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31],
  ; CHECK-NEXT:    vpunpcklwb {{.*#+}} ymm3 =
      ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],
      ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],
      ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23],
  ; CHECK-NEXT:    vpmullw %ymm2, %ymm4, %ymm2
  ; CHECK-NEXT:    vpand %ymm5, %ymm2, %ymm2
  ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm3 =
      ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],
      ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],
      ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23],
  ; CHECK-NEXT:    vpmullw %ymm2, %ymm4, %ymm2
  ; CHECK-NEXT:    vpunpcklwb {{.*#+}} ymm1 =
      ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],
      ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23],
  ; CHECK-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
  ; CHECK-NEXT:    vpand %ymm5, %ymm1, %ymm1
  ; CHECK-NEXT:    vpackuswb %ymm2, %ymm1, %ymm1
  ; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
  ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
}

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
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Developed by:

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University of Illinois at Urbana-Champaign

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Program Directory
define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; VEC512-LABEL: 'zext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
define void @sext256() "min-legal-vector-width"="256" {
}
define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX256-LABEL: 'sext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

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 */
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
  br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

  sw.bb.i: ; preds = %while.body
  unreachable

  sw.bb3.i: ; preds = %while.body
  unreachable

  exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

  sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

  exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

  while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn’t change the fact that we don’t know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee’s
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
 ; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
 ; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %4 = inttoptr i32 %[[C2]] to i8*
 ; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
 ; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
 ; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* inttoptr(i32 805873688 to i8*)
; CHECK-NEXT: store i8 %3, i8* inttoptr(i32 805873688 to i8*)
; CHECK-NEXT: store i8 %2, i8* inttoptr(i32 805873719 to i8*)
; CHECK-NEXT: store i8 %1, i8* inttoptr(i32 805873719 to i8*)
; CHECK-NEXT: store i8* inttoptr(i32 805873727 to i8*) @goo
 ret void
}

@goo = global i8* undef

define void @foo_i8() {
 entry:
 %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
 %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
 %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
 %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
 %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
 store i8 %4, i8* inttoptr(i32 805873688 to i8*)
 store i8 %3, i8* inttoptr(i32 805873719 to i8*)
 store i8 %2, i8* inttoptr(i32 805873720 to i8*)
 store i8 %1, i8* inttoptr(i32 805873727 to i8*)
 store i8* inttoptr(i32 805874800 to i8*), i8** @goo
 ret void
}
; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 2
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s 
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL0000000000000000000000000000000
  ret fp128 %res
  ; CHECK-LABEL: TestSelect:
  ; CHECK      movaps 16(%rsp), %xmm1
  ; CHECK-NEXT   callq __subtf3
  ; CHECK-NEXT   testl %ebx, %ebx
  ; CHECK-NEXT   jg .LBB0_2
  ; CHECK-NEXT # %bb.1:
  ; CHECK-NEXT   movaps .LCPI0_0(%rip), %xmm0
  ; CHECK-NEXT .LBB0_2:
  ; CHECK-NEXT   addq $32, %rsp
  ; CHECK-NEXT   popq %rbx
  ; CHECK-NEXT   retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
  ; CHECK-LABEL: TestFabs:
  ; CHECK      andps .LCPI1_0(%rip), %xmm0
  ; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
  ; CHECK-LABEL: TestCopysign:
  ; CHECK      andps .LCPI2_1(%rip), %xmm0
  ; CHECK-NEXT orps %xmm1, %xmm0
  ; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL0000000000000000080000000000000, %mul
  ret fp128 %res
  ; CHECK-LABEL: TestFneg:
  ; CHECK      movaps %xmm0, %xmm1
  ; CHECK-NEXT callq __multf3
  ; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
  ; CHECK-NEXT popq %rax
  ; CHECK-NEXT retq
}

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1.998 libmail-sendmail-perl 0.79.16-1

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agere_sta_fw.bin -- 9.48 Hermes I
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Viren Pathare
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Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.
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1.1006 findutils 4.5.11 6.el7
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NAME
HTTP::Daemon - a simple http server class

SYNOPSIS
use HTTP::Daemon;
use HTTP::Status;

my $d = HTTP::Daemon->new || die;
print "Please contact me at: <URL:”， $d->url， ">
while (my $c = $d->accept) {
  while (my $r = $c->get_request) {
    if ($r->method eq 'GET' and $r->uri->path eq '/xyzzy') {
      # remember, this is *not* recommended practice :-)
      $c->send_file_response("/etc/passwd");
    } else {
      $c->send_error(RC_FORBIDDEN)
    }
  }
  $c->close;
  undef($c);
}

DESCRIPTION
Instances of the `HTTP::Daemon' class are HTTP/1.1 servers that listen
on a socket for incoming requests. The `HTTP::Daemon' is a subclass of
`IO::Socket::INET', so you can perform socket operations directly on it
too.

The accept() method will return when a connection from a client is
available. The returned value will be an `HTTP::Daemon::ClientConn'
object which is another `IO::Socket::INET' subclass. Calling the
get_request() method on this object will read data from the client and
return an `HTTP::Request' object. The ClientConn object also provide
methods to send back various responses.

This HTTP daemon does not fork(2) for you. Your application, i.e. the user of the `HTTP::Daemon` is responsible for forking if that is desirable. Also note that the user is responsible for generating responses that conform to the HTTP/1.1 protocol.

The following methods of `HTTP::Daemon` are new (or enhanced) relative to the `IO::Socket::INET` base class:

```
$d = HTTP::Daemon->new
$d = HTTP::Daemon->new( %opts )
```

The constructor method takes the same arguments as the `IO::Socket::INET` constructor, but unlike its base class it can also be called without any arguments. The daemon will then set up a listen queue of 5 connections and allocate some random port number.

A server that wants to bind to some specific address on the standard HTTP port will be constructed like this:

```
$d = HTTP::Daemon->new(
    LocalAddr => 'www.thisplace.com',
    LocalPort => 80,
);
```

See IO::Socket::INET for a description of other arguments that can be used configure the daemon during construction.

```
$c = $d->accept
$c = $d->accept( $pkg )
($c, $peer_addr) = $d->accept
```

This method works the same the one provided by the base class, but it returns an `HTTP::Daemon::ClientConn` reference by default. If a package name is provided as argument, then the returned object will be blessed into the given class. It is probably a good idea to make that class a subclass of `HTTP::Daemon::ClientConn`.

The accept method will return `undef` if timeouts have been enabled and no connection is made within the given time. The timeout() method is described in IO::Socket.

In list context both the client object and the peer address will be returned; see the description of the accept method IO::Socket for details.

```
$d->url
```

Returns a URL string that can be used to access the server root.
$d->product_tokens
Returns the name that this server will use to identify itself. This is the string that is sent with the `Server` response header. The main reason to have this method is that subclasses can override it if they want to use another product name.

The default is the string "libwww-perl-daemon/#.##" where "#.##" is replaced with the version number of this module.

The `HTTP::Daemon::ClientConn` is a `IO::Socket::INET` subclass. Instances of this class are returned by the accept() method of `HTTP::Daemon`. The following methods are provided:

$c->get_request
$c->get_request( $headers_only )
This method reads data from the client and turns it into an `HTTP::Request` object which is returned. It returns `undef` if reading fails. If it fails, then the `HTTP::Daemon::ClientConn` object ($c) should be discarded, and you should not try call this method again on it. The $c->reason method might give you some information about why $c->get_request failed.

The get_request() method will normally not return until the whole request has been received from the client. This might not be what you want if the request is an upload of a large file (and with chunked transfer encoding HTTP can even support infinite request messages - uploading live audio for instance). If you pass a TRUE value as the $headers_only argument, then get_request() will return immediately after parsing the request headers and you are responsible for reading the rest of the request content. If you are going to call $c->get_request again on the same connection you better read the correct number of bytes.

$c->read_buffer
$c->read_buffer( $new_value )
Bytes read by $c->get_request, but not used are placed in the *read buffer*. The next time $c->get_request is called it will consume the bytes in this buffer before reading more data from the network connection itself. The read buffer is invalid after $c->get_request has failed.

If you handle the reading of the request content yourself you need to empty this buffer before you read more and you need to place unconsumed bytes here. You also need this buffer if you implement services like *101 Switching Protocols*.

This method always returns the old buffer content and can optionally replace the buffer content if you pass it an argument.
$c->reason
When $c->get_request returns `undef' you can obtain a short string
describing why it happened by calling $c->reason.

$c->proto_ge( $proto )
Return TRUE if the client announced a protocol with version number
greater or equal to the given argument. The $proto argument can be a
string like "HTTP/1.1" or just "1.1".

$c->antique_client
Return TRUE if the client speaks the HTTP/0.9 protocol. No status
code and no headers should be returned to such a client. This should
be the same as !$c->proto_ge("HTTP/1.0").

$c->head_request
Return TRUE if the last request was a 'HEAD' request. No content
body must be generated for these requests.

$c->force_last_request
Make sure that $c->get_request will not try to read more requests
off this connection. If you generate a response that is not self
delimiting, then you should signal this fact by calling this method.

This attribute is turned on automatically if the client announces
protocol HTTP/1.0 or worse and does not include a "Connection:
Keep-Alive" header. It is also turned on automatically when HTTP/1.1
or better clients send the "Connection: close" request header.

$c->send_status_line
$c->send_status_line( $code )
$c->send_status_line( $code, $mess )
$c->send_status_line( $code, $mess, $proto )
Send the status line back to the client. If $code is omitted 200 is
assumed. If $mess is omitted, then a message corresponding to $code
is inserted. If $proto is missing the content of the
$HTTP::Daemon::PROTO variable is used.

$c->send_crlf
Send the CRLF sequence to the client.

$c->send_basic_header
$c->send_basic_header( $code )
$c->send_basic_header( $code, $mess )
$c->send_basic_header( $code, $mess, $proto )
Send the status line and the "Date:" and "Server:" headers back to
the client. This header is assumed to be continued and does not end
with an empty CRLF line.
See the description of send_status_line() for the description of the accepted arguments.

```
$c->send_header( $field, $value )
$c->send_header( $field1, $value1, $field2, $value2, ... )
```

Send one or more header lines.

```
$c->send_response( $res )
```

Write a `HTTP::Response' object to the client as a response. We try hard to make sure that the response is self delimiting so that the connection can stay persistent for further request/response exchanges.

The content attribute of the `HTTP::Response' object can be a normal string or a subroutine reference. If it is a subroutine, then whatever this callback routine returns is written back to the client as the response content. The routine will be called until it return an undefined or empty value. If the client is HTTP/1.1 aware then we will use chunked transfer encoding for the response.

```
$c->send_redirect( $loc )
$c->send_redirect( $loc, $code )
$c->send_redirect( $loc, $code, $entity_body )
```

Send a redirect response back to the client. The location ($loc) can be an absolute or relative URL. The $code must be one the redirect status codes, and defaults to "301 Moved Permanently"

```
$c->send_error
$c->send_error( $code )
$c->send_error( $code, $error_message )
```

Send an error response back to the client. If the $code is missing a "Bad Request" error is reported. The $error_message is a string that is incorporated in the body of the HTML entity body.

```
$c->send_file_response( $filename )
```

Send back a response with the specified $filename as content. If the file is a directory we try to generate an HTML index of it.

```
$c->send_file( $filename )
$c->send_file( $fd )
```

Copy the file to the client. The file can be a string (which will be interpreted as a filename) or a reference to an `IO::Handle' or glob.

```
$c->daemon
```

Return a reference to the corresponding `HTTP::Daemon' object.
SEE ALSO
RFC 2616

IO::Socket::INET, IO::Socket

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=head1 NAME

HTTP::Daemon - a simple http server class

=head1 SYNOPSIS

use HTTP::Daemon;
use HTTP::Status;

my $d = HTTP::Daemon->new || die;
print "Please contact me at: <URL: ", $d->url, ">\n";
while (my $c = $d->accept) {
  while (my $r = $c->get_request) {
    if ($r->method eq 'GET' and $r->uri->path eq "/xyzzy") {
      # remember, this is *not* recommended practice :-)
      $c->send_file_response("/etc/passwd");
    } else {
      $c->send_error(RC_FORBIDDEN)
    }
  } $c->close;
  undef($c);
}

=head1 DESCRIPTION

Instances of the C<HTTP::Daemon> class are HTTP/1.1 servers that listen on a socket for incoming requests. The C<HTTP::Daemon> is a subclass of C<IO::Socket::INET>, so you can perform socket operations directly on it too.
The accept() method will return when a connection from a client is available. The returned value will be an \texttt{C<HTTP::Daemon::ClientConn> object which is another \texttt{C<IO::Socket::INET> subclass}. Calling the get_request() method on this object will read data from the client and return a \texttt{C<HTTP::Request> object}. The ClientConn object also provide methods to send back various responses.

This HTTP daemon does not fork(2) for you. Your application, i.e. the user of the \texttt{C<HTTP::Daemon> is responsible for forking if that is desirable. Also note that the user is responsible for generating responses that conform to the HTTP/1.1 protocol.

The following methods of \texttt{C<HTTP::Daemon> are new (or enhanced) relative to the \texttt{C<IO::Socket::INET> base class:}

\begin{verbatim}
=over 4
=item $d = HTTP::Daemon->new
=item $d = HTTP::Daemon->new( %opts )

The constructor method takes the same arguments as the \texttt{C<IO::Socket::INET> constructor, but unlike its base class it can also be called without any arguments. The daemon will then set up a listen queue of 5 connections and allocate some random port number.

A server that wants to bind to some specific address on the standard HTTP port will be constructed like this:

\begin{verbatim}
$d = HTTP::Daemon->new(
   LocalAddr => 'www.thisplace.com',
   LocalPort => 80,
);
\end{verbatim}

See \texttt{L<IO::Socket::INET> for a description of other arguments that can be used configure the daemon during construction.}

=item $c = $d->accept

=item $c = $d->accept( $pkg )

=item ($c, $peer_addr) = $d->accept

This method works the same the one provided by the base class, but it returns an \texttt{C<HTTP::Daemon::ClientConn> reference by default. If a package name is provided as argument, then the returned object will be blessed into the given class. It is probably a good idea to make that class a subclass of \texttt{C<HTTP::Daemon::ClientConn>}.}
The accept method will return \texttt{C<undef>} if timeouts have been enabled and no connection is made within the given time. The timeout() method is described in \texttt{L<IO::Socket>}.

In list context both the client object and the peer address will be returned; see the description of the accept method \texttt{L<IO::Socket>} for details.

\texttt{=item $d->url}

Returns a URL string that can be used to access the server root.

\texttt{=item $d->product_tokens}

Returns the name that this server will use to identify itself. This is the string that is sent with the \texttt{C<Server>} response header. The main reason to have this method is that subclasses can override it if they want to use another product name.

The default is the string "libwww-perl-daemon/##" where "##" is replaced with the version number of this module.

\texttt{=back}

The \texttt{C<HTTP::Daemon::ClientConn>} is a \texttt{C<IO::Socket::INET>} subclass. Instances of this class are returned by the accept() method of \texttt{C<HTTP::Daemon>}. The following methods are provided:

\texttt{=over 4}

\texttt{=item $c->get_request}

\texttt{=item $c->get_request( $headers_only )}

This method reads data from the client and turns it into an \texttt{C<HTTP::Request>} object which is returned. It returns \texttt{C<undef>} if reading fails. If it fails, then the \texttt{C<HTTP::Daemon::ClientConn>} object ($c) should be discarded, and you should not try call this method again on it. The $c->reason method might give you some information about why $c->get_request failed.

The get_request() method will normally not return until the whole request has been received from the client. This might not be what you want if the request is an upload of a large file (and with chunked transfer encoding HTTP can even support infinite request messages - uploading live audio for instance). If you pass a TRUE value as the $headers_only argument, then get_request() will return immediately.
after parsing the request headers and you are responsible for reading
the rest of the request content. If you are going to call
$c->get_request again on the same connection you better read the
correct number of bytes.

=item $c->read_buffer

=item $c->read_buffer( $new_value )

Bytes read by $c->get_request, but not used are placed in the I<read
buffer>. The next time $c->get_request is called it will consume the
bytes in this buffer before reading more data from the network
connection itself. The read buffer is invalid after $c->get_request
has failed.

If you handle the reading of the request content yourself you need to
empty this buffer before you read more and you need to place
unconsumed bytes here. You also need this buffer if you implement
services like I<101 Switching Protocols>.

This method always returns the old buffer content and can optionally
replace the buffer content if you pass it an argument.

=item $c->reason

When $c->get_request returns C<undef> you can obtain a short string
describing why it happened by calling $c->reason.

=item $c->proto_ge( $proto )

Return TRUE if the client announced a protocol with version number
greater or equal to the given argument. The $proto argument can be a
string like "HTTP/1.1" or just "1.1".

=item $c->antique_client

Return TRUE if the client speaks the HTTP/0.9 protocol. No status
code and no headers should be returned to such a client. This should
be the same as !$c->proto_ge("HTTP/1.0").

=item $c->head_request

Return TRUE if the last request was a C<HEAD> request. No content
body must be generated for these requests.

=item $c->force_last_request

Make sure that $c->get_request will not try to read more requests off
this connection. If you generate a response that is not self
delimiting, then you should signal this fact by calling this method.

This attribute is turned on automatically if the client announces
protocol HTTP/1.0 or worse and does not include a "Connection:
Keep-Alive" header. It is also turned on automatically when HTTP/1.1
or better clients send the "Connection: close" request header.

=item $c->send_status_line

=item $c->send_status_line( $code )

=item $c->send_status_line( $code, $mess )

=item $c->send_status_line( $code, $mess, $proto )

Send the status line back to the client. If $code is omitted 200 is
assumed. If $mess is omitted, then a message corresponding to $code
is inserted. If $proto is missing the content of the
$HTTP::Daemon::PROTO variable is used.

=item $c->send_crlf

Send the CRLF sequence to the client.

=item $c->send_basic_header

=item $c->send_basic_header( $code )

=item $c->send_basic_header( $code, $mess )

=item $c->send_basic_header( $code, $mess, $proto )

Send the status line and the "Date:" and "Server:" headers back to
the client. This header is assumed to be continued and does not end
with an empty CRLF line.

See the description of send_status_line() for the description of the
accepted arguments.

=item $c->send_header( $field, $value )

=item $c->send_header( $field1, $value1, $field2, $value2, ... )

Send one or more header lines.

=item $c->send_response( $res )
Write a C<HTTP::Response> object to the client as a response. We try hard to make sure that the response is self-delimiting so that the connection can stay persistent for further request/response exchanges.

The content attribute of the C<HTTP::Response> object can be a normal string or a subroutine reference. If it is a subroutine, then whatever this callback routine returns is written back to the client as the response content. The routine will be called until it return an undefined or empty value. If the client is HTTP/1.1 aware then we will use chunked transfer encoding for the response.

=item $c->send_redirect( $loc )

=item $c->send_redirect( $loc, $code )

=item $c->send_redirect( $loc, $code, $entity_body )

Send a redirect response back to the client. The location ($loc) can be an absolute or relative URL. The $code must be one the redirect status codes, and defaults to "301 Moved Permanently"

=item $c->send_error

=item $c->send_error( $code )

=item $c->send_error( $code, $error_message )

Send an error response back to the client. If the $code is missing a "Bad Request" error is reported. The $error_message is a string that is incorporated in the body of the HTML entity body.

=item $c->send_file_response( $filename )

Send back a response with the specified $filename as content. If the file is a directory we try to generate an HTML index of it.

=item $c->send_file( $filename )

=item $c->send_file( $fd )

Copy the file to the client. The file can be a string (which will be interpreted as a filename) or a reference to an C<IO::Handle> or glob.

=item $c->daemon

Return a reference to the corresponding C<HTTP::Daemon> object.
SEE ALSO

RFC 2616

L<IO::Socket::INET>, L<IO::Socket>

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Also add information on how to contact you by electronic and paper mail.

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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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    <signature of Ty Coon>, 1 April 1989
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The End

# perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{

my $current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.1017 asynchbase 1.7.2
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashton. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support.
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(objieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compile support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.1021 sqlx 1.2.0

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use lib 't/lib';
use MBTest;
use DistGen;

if (eval { require CPAN::Meta; CPAN::Meta->VERSION(2.142060) }) {
    plan('no_plan');
    require CPAN::Meta::YAML;
    require Parse::CPAN::Meta;
} else {
    plan(skip_all => 'No or old CPAN::Meta');
}

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----------------------------------------------#
# Create test distribution
#-----------------------------------------------#

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl',
        "license 'perl' is valid"
    );

    my $meta = $mb->get_metadata( fatal => 0 );

    is_deeply( $meta->{license} => [ 'perl_5' ], "META license will be 'perl'" );
    is_deeply( $meta->{resources}{license}, [ "http://dev.perl.org/licenses/" ],
        "META license URL is correct"
    );

    
    
}
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is_deeply( $meta->{license} => [ 'unrestricted' ], "META license will be 'unrestricted'" );
is_deeply( $meta->{resources}{license}, [ "http://example.com/vaporware/" ],
    "META license URL is correct"
);

} # Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

1.1026 postgre-sql 9.6
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1.1028 libencode-locale-perl 1.03-1
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=head1 NAME
Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

use Encode::Locale;
use Encode;

$string = decode(locale => $bytes);
$bytes = encode(locale => $string);

if (-t) {
    binmode(STDIN, ':encoding(console_in)');
    binmode(STDOUT, ':encoding(console_out)');
    binmode(STDERR, ':encoding(console_out)');
}

# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, '<', encode(locale_fs => $uni_filename))
In many applications it's wise to let Perl use Unicode for the strings it processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The C<Encode::Locale> module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the L<Encode> module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling C<<
Encode::encode(locale => $bytes) >> and converted back again with C<<
Encode::decode(locale => $string) >>.

Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don't actually depend on the locale; and this module determines the most appropriate encoding for file names. The L<Encode> module will know this encoding under the name "locale_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and C<Encode::Locale> will do that if available and make these encodings known under the C<Encode> aliases "console_in" and "console_out". For systems where we can't determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console_in" for input known to come from the terminal and "console_out" for output known to go from the terminal.

In addition to arranging for various Encode aliases the following functions and variables are provided:

=item decode_argv( )

=item decode_argv( Encode::FB_CROAK )

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.
The function will by default replace characters that can't be decoded by "\x{FFFD}"; the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call. Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the command line arguments can be decoded. See L<Encode/"Handling Malformed Data”> for details on other options for CHECK.

=item env( $uni_key )

=item env( $uni_key => $uni_value )

Interface to get/set environment variables. Returns the current value as a Unicode string. The $uni_key and $uni_value arguments are expected to be Unicode strings as well. Passing C<undef> as $uni_value deletes the environment variable named $uni_key.

The returned value will have the characters that can't be decoded replaced by "\x{FFFD}"; the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for decode_argv(). If you need that you need to call encode/decode yourself. For example:

    my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
    my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);

=item reinit( )

=item reinit( $encoding )

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.

With argument force $ENCODING_... variables to set to the given value.

=item $ENCODING_LOCALE

The encoding name determined to be suitable for the current locale. L<Encode> know this encoding as "locale".

=item $ENCODING_LOCALE_FS

The encoding name determined to be suitable for file system interfaces involving file names.
L<Encode> know this encoding as "locale_fs".

=item $ENCODING_CONSOLE_IN

=item $ENCODING_CONSOLE_OUT

The encodings to be used for reading and writing output to the a console.
L<Encode> know these encodings as "console_in" and "console_out".

=back

=head1 NOTES

This table summarizes the mapping of the encodings set up
by the C<Encode::Locale> module:

<table>
<thead>
<tr>
<th>Encode</th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| Alias       | Windows | Mac OS X     | POSIX
|--------------|---------|--------------|
| locale      | ANSI    | nl_langinfo  | nl_langinfo
| locale_fs   | ANSI    | UTF-8        | nl_langinfo
| console_in  | OEM     | nl_langinfo  | nl_langinfo
| console_out | OEM     | nl_langinfo  | nl_langinfo

=head2 Windows

Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16
strings) and a byte based API based a character set called ANSI. The
regular Perl interfaces to the OS currently only uses the ANSI APIs.
Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of
Windows. For many western editions of Windows ANSI corresponds to CP-1252
which is a character set similar to ISO-8859-1. Conceptually the ANSI
character set is a similar concept to the POSIX locale CODESET so this module
figures out what the ANSI code page is and make this available as
$ENCODING_LOCALE and the "locale" Encoding alias.

Windows systems also operate with another byte based character set.
It's called the OEM code page. This is the encoding that the Console
takes as input and output. It's common for the OEM code page to
differ from the ANSI code page.

=head2 Mac OS X

On Mac OS X the file system encoding is always UTF-8 while the locale
can otherwise be set up as normal for POSIX systems.
File names on Mac OS X will at the OS-level be converted to
NFD-form. A file created by passing a NFC-filename will come
in NFD-form from readdir(). See L<Unicode::Normalize> for details
of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all
color character ranges are decomposed. The claim is that this avoids problems with
round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for
details.

=head2 POSIX (Linux and other Unixes)

File systems might vary in what encoding is to be used for
filenames. Since this module has no way to actually figure out
what the is correct it goes with the best guess which is to
assume filenames are encoding according to the current locale.
Users are advised to always specify UTF-8 as the locale charset.

=head1 SEE ALSO

L<I18N::Langinfo>, L<Encode>

=head1 AUTHOR

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=cut

Found in path(s):
* /opt/cola/permits/1138400791_1614282064.46/0/libencode-locale-perl-1-03-orig-1-tar-gz/Encode-Locale-
1.03/lib/Encode/Locale.pm
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1138400791_1614282064.46/0/libencode-locale-perl-1-03-orig-1-tar-gz/Encode-Locale-
1.03/META.yml
No license file was found, but licenses were detected in source scan.

Encode-Locale
==============

The purpose of this Perl module is try determine what encodings should be used
when interfacing to various external interfaces. You will need perl-5.8 or
better to use this module.

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Found in path(s):
* /opt/cola/permits/1138400791_1614282064.46/0/libencode-locale-perl-1-03-orig-1-tar-gz/Encode-Locale-1.03/README

1.1029 libxtst 1.2.3-1.el7

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1.1030 hostname 3.15ubuntu1

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 * Rob Earhart
 * Rob Siemborski
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@end smallexample

Ty Coon, President of Vice

That's all there is to it!

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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be optional: if the application does not supply it, the square
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regexec.c:
regint.h:
regparse.[ch]:
ect.ascii.c
ect/big5.c
ect/cp949.c
ect/emacs_mule.c
ect/encdb.c
ect/euc.jp.c
ect/euc.kr.c
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ect/iso_8859_7.c
ect/iso_8859_8.c
ect/iso_8859_9.c
ect/koi8_r.c
enc/koi8_u.c
enc/shift_jis.c
enc/unicode.c
enc/us_ascii.c
enc/utf_16be.c
enc/utf_16le.c
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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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   (a) $B%M%C%H%K%e<i%$SK%]$9%HS7?$]%$n<TSK$Q995rAwIU$9Sk(B
       $BSJSISNJ)K!$G!$JQ995<r+3+$9S$k%!B

   (b) $BJQ99$5$S$K%=W%m0%i~ $r<+J,$N=j$B059$skAH?%FbIt$@$1$S$G(B
       $SB;HS&%!B

   (c) $BJQ99$E@$SrL<($7S?$S$S(!$S%e=)$U%H%&%!$NL>A0$rJQ995$9Sk%!B
       $BS=SN%=$U%H%&%!$SrG[I]$9Sk;~$K$O$Q99A0$NK$W%m0%i~(B
       $B%$SbF1;~$K$G[I]$9Sk!%$S$O$Q99$A0$NK$W%m0%i~$N%e=)$<B
       $B%$9$N$F~<j$K!$SrL@<($9$S$k%!B

   (d) $BS=$SNB>NJQ99>r7oSr:n<TS$H9g0U$9$S$k%!B

3. $BOJ2<$N>r7oSN$$S$SIS+$rK-?5?$9;~$KKV=W%m0%i~ $r%3$s$Q$S$B
   $B%k$S7%*$V$8%&%$H%3!<!$1$d<B9T7$A<0$S$G$b$G[I]$G$S$S$5$9%!B
   (a) $B%P$%$J%j$Sr<u$1<h$SC$%?MS, %=!<!$9$SrF~<j$G$-Sk$Sh$&$SK$(B
       $B%=<!$9$N$F~<j$K!$SrL@<($9$S$k%!B

   (b) $SB$?!3#2DFIS$J%=<!$9$3<!$1SrE:IU$9$S$k%!B

   (c) $BJQ99$S$9T$SC$%P$%$J%j$SOL>A0$rJQ99$7$S$S$S!S%*$j%8$J(B
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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* javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-util-scan
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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:   ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:   mov v0.d[1], v0.d[0]
; CHECK-NEXT:   ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248
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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {

  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ret void
    
    ; SKX256-LABEL: 'zext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ret void
    
    ; VEC512-LABEL: 'zext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ret void
}
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
 ; VEC256-LABEL: 'sext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'sext256'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
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%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts
; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
  ; preds = %entry
  br label %while.body

while.body:
  ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i:
  ; preds = %while.body
  unreachable

sw.bb3.i:
  ; preds = %while.body
  unreachable

exit:
  ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

sw.bb.i17:
  ; preds = %.exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20:
  ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2:
  ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body
while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [\[BLOCK0_HI:v[0-9]+\]], v0, #0
; CHECK-DAG: sshll2.2d [\[BLOCK1_HI:v[0-9]+\]], v1, #0
; CHECK-DAG: sshll2.2d [\[BLOCK2_HI:v[0-9]+\]], v2, #0
; CHECK-DAG: sshll2.2d [\[BLOCK3_HI:v[0-9]+\]], v3, #0
; CHECK-DAG: sshll.2d [\[BLOCK0_LO:v[0-9]+\]], v0, #0
; CHECK-DAG: sshll.2d [\[BLOCK1_LO:v[0-9]+\]], v1, #0
; CHECK-DAG: sshll.2d [\[BLOCK2_LO:v[0-9]+\]], v2, #0
; CHECK-DAG: sshll.2d [\[BLOCK3_LO:v[0-9]+\]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [\[BLOCK0_LO\]]
; CHECK-DAG: scvtf.2d v1, [\[BLOCK0_HI\]]
; CHECK-DAG: scvtf.2d v2, [\[BLOCK1_LO\]]
; CHECK-DAG: scvtf.2d v3, [\[BLOCK1_HI\]]
; CHECK-DAG: scvtf.2d v4, [\[BLOCK2_LO\]]
; CHECK-DAG: scvtf.2d v5, [\[BLOCK2_HI\]]
; CHECK-DAG: scvtf.2d v6, [\[BLOCK3_LO\]]
; CHECK-DAG: scvtf.2d v7, [\[BLOCK3_HI\]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]*]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]*]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]*]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %2, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]*]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]*]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]*]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]*]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]*]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[C1:const[0-9]?] = bitcast i32 805874816 to i32
; CHECK-DAG: %[C2:const[0-9]?] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[C2] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[M1] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[M2] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[C1] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[M3] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[M4] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
  ret void
}
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}
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define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
CHECK-LABEL: avg_v64i8_256:
CHECK:       # %bb.0:
CHECK-NEXT:    vmovdqa (%rsi), %ymm0
CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
CHECK-NEXT:    vpavgb (%rdi), %ymm0, %ymm0
CHECK-NEXT:    vpavgb 32(%rdi), %ymm1, %ymm1
CHECK-NEXT:    vmovdqu %ymm1, (%rax)
CHECK-NEXT:    vmovdqu %ymm0, (%rax)
CHECK-NEXT:    vzeroupper
CHECK-NEXT:    retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, %6, %7, %8
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, %8
store <64 x i8> %7, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
CHECK-LABEL: avg_v64i8_512:
CHECK:       # %bb.0:
CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
CHECK-NEXT:    vzeroupper
CHECK-NEXT:    retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {  
 ; CHECK-LABEL: pmaddwd_32_256:  
 ; CHECK:       # %bb.0:  
 ; CHECK-NEXT: vmovdq (%rdi), %ymm0  
 ; CHECK-NEXT: vmovdq 32(%rdi), %ymm1  
 ; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1  
 ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
 ; CHECK-NEXT: vzeroupper  
 ; CHECK-NEXT: retq  
 %A = load <32 x i16>, <32 x i16>* %APtr  
 %B = load <32 x i16>, <32 x i16>* %BPtr  
 %a = sext <32 x i16> %A to <32 x i32>  
 %b = sext <32 x i16> %B to <32 x i32>  
 %m = mul nsw <32 x i32> %a, %b  
 %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32  
 %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32  
 %ret = add <16 x i32> %odd, %even  
 store <16 x i32> %ret, <16 x i32>* %CPtr  
 ret void  
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
 ; CHECK-LABEL: pmaddwd_32_512:  
 ; CHECK-NEXT: vzeroupper  
 ; CHECK-NEXT: retq  
 %1 = load <64 x i8>, <64 x i8>* %a  
 %2 = load <64 x i8>, <64 x i8>* %b  
 %3 = zext <64 x i8> %1 to <64 x i32>  
 %4 = zext <64 x i8> %2 to <64 x i32>  
 %5 = add nuw nsw <64 x i32> %3, %i32  
 %6 = add nuw nsw <64 x i32> %4, %i32  
 %7 = lshr <64 x i32> %5, %i32  
 %8 = trunc <64 x i32> %7 to <64 x i8>  
 store <64 x i8> %8, <64 x i8>* undef, align 4  
 ret void  
}

// CHECK-NEXT: vzeroupper  
// CHECK-NEXT: retq  

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0

; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:  vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm4
; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  .LBB8_2: # %middle.block
; CHECK-NEXT:  vpaddd %ymmm0, %ymmm1, %ymmm1
; CHECK-NEXT:  vpaddd %ymmm0, %ymmm2, %ymmm0
; CHECK-NEXT:  vpaddd %ymmm0, %ymmm1, %ymmm0
; CHECK-NEXT:  vextracti128 %1, %ymmm0, %xmm1
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpaddd %ymmm0, %ymmm1, %ymmm1
; CHECK-NEXT:  vextracti128 %1, %ymmm0, %xmm0
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpaddd %ymmm0, %ymmm1, %ymmm1
; CHECK-NEXT:  vextracti128 %1, %ymmm0, %xmm0
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT: retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
   %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
   %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
   %4 = getelementptr inbounds i8, i8* %i, i64 %index
   %5 = bitcast i8* %4 to <32 x i8>*
   %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
   %6 = sext <32 x i8> %wide.load to <32 x i32>
   %7 = getelementptr inbounds i8, i8* %0, i64 %index
   %8 = bitcast i8* %7 to <32 x i8>*
   %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
   %9 = sext <32 x i8> %wide.load14 to <32 x i32>
   %10 = mul nsw <32 x i32> %9, %6
   %11 = add nsw <32 x i32> %10, %vec.phi
   %index.next = add i64 %index, 32
   %12 = icmp eq i64 %index.next, %3
   br i1 %12, label %middle.block, label %vector.body

middle.block:
    %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde

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ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpadd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* i32, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
\texttt{i32 \texttt{undef}>
\texttt{\%in.rdx2 = add <16 x i32> \%in.rdx, \%dx.shuf2
\%dx.shuf3 = shufflevector <16 x i32> \%in.rdx2, <16 x i32> \texttt{undef}, <16 x i32> \texttt{<i32 2, i32 3, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined>>
\%in.rdx3 = add <16 x i32> \%in.rdx2, \%dx.shuf3
\%dx.shuf4 = shufflevector <16 x i32> \%in.rdx3, <16 x i32> \texttt{undef}, <16 x i32> \texttt{<i32 1, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined>>
\%in.rdx4 = add <16 x i32> \%in.rdx3, \%dx.shuf4
\%	exttt{12} = extractelement <16 x i32> \%in.rdx4, i32 \texttt{0}
\texttt{ret i32 \%	exttt{12}}
}

\texttt{define i32 \texttt{@sad}_16i8_512() "min-legal-vector-width"="512" [}
; \texttt{CHECK-LABEL: \texttt{sad}_16i8_512:}
; \texttt{CHECK: \# %bb.0: \# %entry}
; \texttt{CHECK-NEXT: \texttt{vpxor} %xmm0, %xmm0, %xmm0}
; \texttt{CHECK-NEXT: \texttt{movq} $-1024, %rax \# imm = 0xFC00}
; \texttt{CHECK-NEXT: .p2align 4, 0x90}
; \texttt{CHECK-NEXT: .LBB11_1: \# %vector.body}
; \texttt{CHECK-NEXT: \# \texttt{=>This Inner Loop Header: Depth=1}}
; \texttt{CHECK-NEXT: \texttt{vmovdqu a+1024(%rax), %xmm1}}
; \texttt{CHECK-NEXT: \texttt{vpsadbw b+1024(%rax), %xmm1, %xmm1}}
; \texttt{CHECK-NEXT: \texttt{vpadd %zmm0, %zmm1, %zmm0}}
; \texttt{CHECK-NEXT: \texttt{addq} $4, %rax}
; \texttt{CHECK-NEXT: \texttt{jne .LBB11_1}}
; \texttt{CHECK-NEXT: \# %bb.2: \# %middle.block}
; \texttt{CHECK-NEXT: \texttt{vextracti64x4} $1, %zmm0, %xmm0}
; \texttt{CHECK-NEXT: \texttt{vpadd %zmm1, %zmm0, %zmm0}}
; \texttt{CHECK-NEXT: \texttt{vextracti128} $1, %zmm0, %xmm0}
; \texttt{CHECK-NEXT: \texttt{vpadd %xmm1, %xmm0, %xmm0}}
; \texttt{CHECK-NEXT: \texttt{vpshufd} \{[*#+]\} %xmm1 = %xmm0[2,3,0,1]}
; \texttt{CHECK-NEXT: \texttt{vpadd %xmm1, %xmm0, %xmm0}}
; \texttt{CHECK-NEXT: \texttt{vpshufd} \{[*#+]\} %xmm1 = %xmm0[1,1,2,3]}
; \texttt{CHECK-NEXT: \texttt{vpadd %xmm1, %xmm0, %xmm0}}
; \texttt{CHECK-NEXT: \texttt{vmovd} %xmm0, %eax}
; \texttt{CHECK-NEXT: \texttt{vzeroupper}}
; \texttt{CHECK-NEXT: \texttt{retq}}
\texttt{entry:}
\texttt{br label %vector.body}
\texttt{vector.body:}
\texttt{\%index = phi i64 [ 0, \%entry ], \[ \%index.next, \%vector.body \]}
\texttt{\%vec.phi = phi <16 x i32> \[ \texttt{zeroinitializer}, \%entry \], \[ \%10, \%vector.body \]}
\texttt{\%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* \@a, i64 0, i64 \%index}
\texttt{\%1 = bitcast i8* \%0 to <16 x i8>*}
\texttt{\%wide.load = load <16 x i8>, <16 x i8>* \%1, align 4}
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, %i32 5, %i32 6, %i32 7, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, %i32 3, %i32 4, %i32 5, %i32 6, %i32 7, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, %i32 2, %i32 3, %i32 4, %i32 5, %i32 6, %i32 7, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" { 
; CHECK-LABEL: sbto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper

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define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinit
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %ymm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vextracti128 $1, %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm2, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinit
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, %res
    ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinit
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, %res
    ret void
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitiializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitiializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vpsrld $31, %ymm0, %ymmm0
    ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymmm1
    ; CHECK-NEXT: vextracti128 $1, %ymmm0, %xmm0
    ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymmm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymmm2
    ; CHECK-NEXT: vpsrld $31, %ymmm2, %ymmm2
    ; CHECK-NEXT: vcvtdq2pd %ymm2, %ymmm3
    ; CHECK-NEXT: vextracti128 $1, %ymmm2, %xmm2
    ; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
    ; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
  ; CHECK:       # %bb.1:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT: vcvtdq2pd %xmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
  ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  ; CHECK:       # %bb.2:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT: vcvtdq2pd %xmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
  ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f64_512:
  ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
    ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
    ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
  ; CHECK:       # %bb.1:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
  ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:
; # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vcmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: mul512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} %zmm2 =
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} %zmm3 =
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

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This threw an assertion at one point.

define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
  # %bb.0:
  %mask = icmp eq <4 x i32> %trigger, zeroinitializer
  %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1> %mask, <4 x i32> %dst) ret <4 x i32> %res
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
  # %bb.0:

  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

; This threw an assertion at one point.
target triple = "x86_64-unknown-linux-gnu"

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1).val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1).val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #0 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

: Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

```
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
}
```

```
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}
```
define fp128 @TestCopysign(fp128 %a, fp128 %b) {  
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)  
    ret fp128 %res  
}  

define fp128 @TestFneg(fp128 %a) {  
    %mul = fmul fp128 %a, %a  
    %res = fsub fp128 0xL000000000000000080000000000000000, %mul  
    ret fp128 %res  
}  

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## Commands to generate dependency files
GEN_DEPS.c=$$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed 's/(.*)\(.*\).o :.*\(.*\)/\1\2 $@ : /g' > $@; \ 
[ -s $@ ] || rm -f $@' 
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed 's/(.*)\(.*\).o :.*\(.*\)/\1\2 $@ : /g' > $@; \ 
[ -s $@ ] || rm -f $@' 

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)

hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java

hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/{{lz4.h,lz4.c,lz4hc.h,lz4hc.c}}

hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat,openat,unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*

hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc

hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h

hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c


hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/DT-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/Terminal

=======
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written by mortbay.org.

Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.1071 authconfig 6.1.12-13.el6
1.1071.1 Available under license:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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1.1073 shared-mime-info 1.1 9.el7

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<li>TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: <a href="http://www.flexiprovider.de">http://www.flexiprovider.de</a></li>
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<li>Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation</li>
<li>Michael Lee &lt;yfl&#064;mira.net&gt; - initial RC6 implementation, MD2 implementation</li>
<li>Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object</li>
<li>Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys)</li>
<li>Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small</li>
<li>Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater)</li>
<li>Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment</li>
<li>Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment</li>
<li>Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions
for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

- Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.
- Uwe Guenther &lt;uwe@csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.
- Markus Bradtke &lt;mab@informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.
- Waclaw Sierek &lt;waclaw.sierek@tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.
- Stefan K&ouml;psell &lt;sk13@mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see <a href="http://sourceforge.net/projects/jcf/">http://sourceforge.net/projects/jcf/</a>
- Carmen Bastiaans &lt;cbastiaaa@microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.
- Tomas Gustavsson &lt;tomasz@#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.
- Eugen Kuleshov &lt;euxx@#064;hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.
- Megan Woods &lt;meganwoods@#064;sekurafile.com&gt; - initial implementation of ECIES.
- Christian Geuer-Pollmann &lt;geuerp@#064;apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.
- Michael M&##252;hle &lt;michael@#064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.
- Michael Mansell &lt;me@#064;michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.
- Eike Recker &lt;eike.recker@#064;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.
- Chris Southern &lt;CSouthern@#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.
- Sidney Markowitz &lt;sidney@#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.
- Chris Kerr &lt;ckerr@#064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet
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- Mike Bean &lt;mbean@lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.
- Martin Petraschek &lt;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.
- Jess Garms &lt;jgarms@yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.
- Mike Bremford &lt;mike@big.faceless.org&gt; - contributing the initial PKCS7 implementation.
- Shankar Srinivasan &lt;ssr002@yahoo.com&gt; - S/Mime interoperability testing and debugging.
- Stef Hoeben &lt;ilstestef@skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.
- Martin Petraschek &lt;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.
- Mike Bean &lt;mbean@lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.
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- Martin Petraschek &lt;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.
- Mike Bean &lt;mbean@lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.
Matteo Artuso &lt;matartuso@libero.it&gt; - picking up the possible overead in ASN1InputStream.

Julian Morrison &lt;julian@#064:extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

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J&ouml;rn Schwarze &lt;j schwarze@#064:ule.de&gt; - Locale fix for the clean room JCE.

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Artem Portnoy &lt;Artem_Portnoy@#064:ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael H&auml;usler &lt;haeusler@ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.

Johan Seland &lt;johans@#064:netfonds.no&gt; - general toString for BigInteger class.

Johannes Nicolai &lt;johannes.nicolai@#064:novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva &lt;marc.doberva@#064:lex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak &lt;jan.dvorak@#064:mathan.cz&gt; - initial implementation of the light weight Null block cipher.

Joe Cohen &lt;jcohen@#064:forumsys.com&gt; - converting the ArrayOutOfBounds exception in DERInputStream into what it should have been.

Chris Long &lt;aclong@#064:ece.cmu.edu&gt; - adding public key decoding to PEMReader.

Hes Siemelink &lt;hes@#064:izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length objects in SMIMEMessage.

Stefan Piuu &lt;stefanpiuuuro@#064:yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang &lt;kaiseryang@#064:yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Jiri Urbanec &lt;jiri.urbanec@#064:logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@#064:pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@#064:gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;M_Dvorak@#064:kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;klaus@#064:cpqd.com.br&gt; - array fix in PGPK publicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@#064:fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@#064:cyptotech.com.pl&gt; - patch to DER GeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@#064:transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.

Ian Haywood &lt;ian@#064:haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Jonathan Edwards &lt;js4gull@#064:mac.com&gt; - initial support for reading multiple rings from a PGP key file.

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Gregor Leander &lt;gl@#064:bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Boselaers &lt;Antoon.Boselaers@#064:esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.
Peter Sylvester &lt;Peter.Sylvester@edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmm@myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fstaes@netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implmentation of DERGeneralizedString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

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Jim Ford &lt;jim@604muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler &lt;haeusler@604ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@604linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;Joseph@604digiweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz@604sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen@604vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun@604diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdudem@604email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva@wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar &lt;alps@604linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach &lt;jgengelbach@604webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

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Tom Cargill &lt;cargill@604profcon.com&gt; - spelling patch in provider.

Breitenstrom Christian &lt;C.Breitenstrom@604t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko &lt;zanotti@604cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendoni &lt;nscendoni@604babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skytt&amp;uuml; &lt;ville.skyttaa@604iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

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Miles Whiteley &lt;Miles.Whiteley@604savvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;almoliner@604evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;carlos@604evintia.com&gt; - initial TSP implementation, patch to SignerInformation for
supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.</li>
<li>Rolf Schillinger &lt;rolf@#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey.Bahtin@#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Javier Delgadillo &lt;javi@#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.</li>
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<li>Franck Leroy &lt;Franck.Leroy@#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhioko Yamanaka &lt;ymnk@#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Steve Mitchell &lt;mitchell@#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>
<li>Dirk Eisner &lt;D.Eisner@#064seeburger.de&gt; - initial implementation of ISO 7816-4 padding.</li>
<li>Julien Pasquier &lt;JulienPasquier@#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso@#064libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson@#064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov@#064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo@#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev &lt;paulvas@#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom@#064nux.net&gt; - addition of DES-DEE encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch@#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix@#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee@#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5@#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;tcung@#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz@#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee &lt;dmlee@crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;david.josse@064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.


Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctl&gt; &lt;tr&gt; &lt;m&gt; only handling in CRL/OutputStream.

John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
<li>Georg Lippold &lt;georg.lippold#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles &lt;chris_viles#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen &lt;pasi.eronen#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Maria Ivanova &lt;maria.ivanova#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&auml;userling &lt;arminha#student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder &lt;mschilder#064google.com&gt; - main set of test vectors for Bleichenbacher’s forgery attack.</li>
<li>Xavier Le Vourch &lt;xavier#064britannysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews#064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;reikomusha#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rjoaquim#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey#allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Maritijn Brinkers &lt;list#064mitm.nl&gt; - better exception handling in CMS enveloping, ”just in time” modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juliusdavies#064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&uuml;thler &lt;olga.kaethler#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&uuml;ria Mar&iacute; &lt;numaa#hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;Mike#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark#064nvr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff#ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;pknopp#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.
Jakub Gwozdz &lt;gwozdziu@064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes.

Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEFs.

Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [BJA-93].

Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BJA-102].

Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Jon Larrañaga &lt;ilarra@s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;ru@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bounceycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal.

Richard Farr &lt;rfarr.se@064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.

Robin Lundgren &lt;rt37@lundgren@064gmail.com&gt; - CMPCertificate constructor from...
X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256. </li>
<li>Andreas Antener &lt;antener_a&#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hrsrawat&#064yahoo.com&gt; fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;lindemann&#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alexart.home&#064064gmail.com&gt; name look up patch for GOST-2001 parameters. </li>
<li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore. </li>
<li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor&#064064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kil&#064arings.de &lt;markus&#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis&#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith&#064064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio&#064gmail.com&gt; fix for PEM password encryption of private keys. </li>
<li>Alex Birkett &lt;alex&#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynegrant&#064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info&#064064frankcornelis.be&gt; additional support classes for CAES, enhancements to OCSP classes.</li>
<li>Jan Dittberner &lt;jan&#064064dittberner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgood&#064064binternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;ivo.matheis&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;nessche&#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfilmalf&#064064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso massa&#064064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo&#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis&#064064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikocinski &lt;J.Sikocinski&#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev&#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten&#064064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden&#064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev&#064gmail.com&gt; added support for revocation signatures in OpenPGP.
Mickael Laiking &lt;mickael.laiking@keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@抵押4hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd@抵押4gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@抵押4ngotech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@抵押4gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@抵押4gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;p.petrov@抵押4bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@抵押4gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@抵押4gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificateRequests.

Eleriseth &lt;Eleriseth@抵押4WPECGLtYbVi8Ri6Y7Vzl2Lvd2EUVW99v3yNV3IWR0G8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@抵押4the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes@抵押4gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b@抵押4yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc@抵押4carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lindén Borell &lt;samuel@抵押4primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@抵押4certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@抵押4orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20. Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST5 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/Outputstream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDbcrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@抵押4primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for timestamp token generation.

Andrey Zhozhin &lt;zhozhin@抵押4xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;st5555d@抵押4gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy@抵押4gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.
<li>Ash Hughes &lt;ashley.hughes@blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher &lt;daniel.hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>
<li>Daniele Ricci &lt;daniele.athome@gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio@mathetics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.</li>
<li>Babak Najafi &lt;bnajafi@akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M&amp;uuml;ller &lt;eric.mueller@64age.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Daniele Grasso &lt;daniele.grasso@gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc@64gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis@ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel.vdb@64riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick@devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward@64pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Andreas Reiter &lt;andre.reiter@iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller@64gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli@64arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt &lt;Daniel.Heldt@cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bounceycastle@64traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;m.aarts@64risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer &lt;https://github.com/franzziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco@64nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Matin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
<li>Tobias Wich &lt;tobias.wich@64sec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke@64hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from
<li>Daniel Zimmerman &lt;dmz@#064galois.com&gt;: Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;j.kapitza@#064schwarze-allianz.de&gt;: Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan@#064primekey.se&gt;: Update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>Nikos N &lt;https://github.com/nikosn&gt;: Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt;: Contributions to BCRYPT/OPENBSDBCRYPT, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@#064htfp.com&gt;: Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@#064halicky.sk&gt;: Correction to notification/error message handling in SignedMailValidator.</li>
<li>Thomas Belot &lt;thomas.belot+BC@#064gmail.com&gt;: Initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rdicroce&gt;: Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Bjorn Kautler &lt;https://github.com/BjornKautler&gt;: Revisions to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schumann &lt;https://github.com/dschumann&gt;: Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete@#064web.de&gt;: Initial fix for bitStrength issue for OpenPGP EC keys.</li>
<li>Tobias Wagner &lt;https://github.com/tobias.wagner@#064n-design.de&gt;: Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;sgiro@#064google.com&gt;: Fixed adding of additional stores from CRL distribution point [#BJA-537], Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette &lt;https://github.com/bschuette&gt;: Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt;: Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen@bouncycastle@#064xtreme.nl&gt;: Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt;: Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer@#064gmail.com&gt;: Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles@#064opentrust.com&gt;: Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95@#064gmail.com&gt;: Fixes to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt;: Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt;: BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Luukasz Deputat &lt;luukasz.deputat@#064gmail.com&gt;: Fixed bugs in TlsUtils read methods [#BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinlw&gt;: Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
<li>André Berenguel &lt;https://github.com/aberenguel&gt;: Fix to include ECNamedCurveSpec in EC RFC 7251.
AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski &lt;https://github.com/slaweckjaranowski&gt;: Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt;: Initial implementation of GOST R 34.11-2012.</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt;: Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;https://github.com/jnaegle&gt;: Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt;: defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;https://github.com/girazoki&gt;: From Intel Security Center of Excellence &lt;https://security-center.intel.com&gt;: detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESShared and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;https://github.com/joergsenekowitsch&gt;: Patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;https://github.com/wipe&gt;: N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;https://github.com/storojs72&gt;: N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;https://github.com/na.yu&gt;: Constructor patches to CMC PKIData.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt;: additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt;: JavaDoc fix for MCSDecryptedDataGenerator.</li>
<li>didisoft &lt;https://github.com/didisoft&gt;: test code for PGP signature removal involving user ids.</li>
<li>Mike Saфонов &lt;https://github.com/MikeSaфонов&gt;: initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;https://github.com/storojs72&gt;: initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;https://github.com/andreas.glaser&gt;: patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt;: patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt;: patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt;: patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt;: corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt;: fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt;: initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;https://github.com/ScottW800Drbg&gt;: performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt;: fix for off by one error in SCRYPMT bounds checking.</li>
<li>chris mccown &lt;https://github.com/chrismccown&gt;: identification of serialisation issue with
XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patch for SM2 decrypt.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

fgrieu &lt;fgrieu&#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.

Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode.


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* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-5.2/common/tftpsubs.h
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* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-5.2/tftpd/recvfrom.h

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
Open Source Used In Tetration 3.5.1

/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}_%{bindir}
mkdir -p ${RPM_BUILD_ROOT}_%{mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}_%{sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
    SBINDIR=%{sbindir} MANDIR=%{mandir} \
    install
install -m755 -d ${RPM_BUILD_ROOT}_%{sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}_%{sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{bindir}/tftp
%{mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{sbindir}/in.tftpd
%{mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)
* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>  
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)  
- updated tftp-hpa source to tftp-hpa-0.17  
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version  
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>  
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>  
- fix tftp client's put problems (#29529)  
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>  
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>  
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)  
- fixed hpa-tftpd to handle files greater than 32MB (#23725)  
- added "-l" flag to hpa-tftpd for file-logging (#26467)  
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>  
- updated tftp client to 0.17 stable (#19640),  
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>  
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>  
- fix to permit tftp put's (#18128).  
- startup as root with chroot to /tftpboot with early reversion to nobody  
  is preferable to starting as nobody w/o ability to chroot.  
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>  
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>  
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>  
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftp

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftp so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
- tftp should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
- build root
* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5.2-orig-1-tar-gz/tftp-hpa-5.2/tftp.spec
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1.1080 pycrypto 2.6.1-4ubuntu0.3

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1.1081 netbase 5.2
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1.1083 jersey-media-jaxb 2.24

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1.1084 cups-filters 1.26.2

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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For the server\util_md5.c component:

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:  
Mike Belshe (mbelshe@netscape.com)  
Michael Campanella (campanella@stevms.enet.dec.com)

*/

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## 1.1094 jopt-simple 4.9

## 1.1095 zlib 1.2.3

### 1.1095.1 Available under license : 

/* zlib.h -- interface of the 'zlib' general purpose compression library 
   version 1.1.4, March 11th, 2002 

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/*
/* match.s -- Pentium-optimized version of longest_match()
*/

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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*/

1.1096 glassfish 2.2.2.v201205150955

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1.1098 rsync 3.1.0-2ubuntu0.2
1.1098.1 Available under license:

This is Debian's prepackaged version of Andrew Tridgell and Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement for rcp that uses the rsync algorithm to transfer only the differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>, from sources obtained from:
http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz

The current version was downloaded from:
http://rsync.samba.org/ftp/rsync/src/rsync-3.1.0.tar.gz

on 2013-09-30 by Paul Slootman <paul@debian.org>.

The changes were very minimal - merely adding support for the Debian package maintenance scheme by adding various debian/* files. The only significant change is passing the -4 / -6 options through to ssh. See the debian/patches/ directory.

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Source/JavaScriptCore.bytecode/CodeBlock.h
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1.1117 cpp 4.8.4-1

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@end example

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
typical typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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</table>
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1.1128 snappy 1.1.0 3.el7

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1.1129 scala-actors 2.11.0

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History:
Date   Who   What
11Jun1998   dl   Create public version
Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/CondVar.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/FIFOCondVar.java
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5Aug1998   dl               replaced int counters with longs
24Aug1999  dl               release(n): screen arguments
*/

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* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/helpers/WaitQueue.java
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Date       Who                What
11Jun1998  dl               Create public version
25aug1998  dl               added peek
10dec1998  dl               added isEmpty
10oct1999  dl               lock on node object to ensure visibility
*/

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25may2000  dl               Change class access to public
26nov2001  dl               Added no-arg constructor, all public access.
*/

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* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/AbstractQueue.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/TimeUnit.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Future.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/ReentrantLock.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Executor.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/AbstractExecutorService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/TimeoutException.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Executors.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/RunnableFuture.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ExecutorService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/Lock.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/ReadWriteLock.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Queue.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ThreadPoolExecutor.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/SynchronousQueue.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/ReentrantReadWriteLock.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ExecutionException.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/Condition.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ExecutorCompletionService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/BlockingQueue.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/CompletionService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ThreadFactory.java
jar/scala/actors/threadpool/RejectedExecutionException.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
jar/scala/actors/threadpool/RejectedExecutionHandler.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
jar/scala/actors/threadpool/Callable.java
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jar/scala/actors/threadpool/CancellationException.java
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* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
jar/scala/actors/threadpool/helpers/ThreadHelpers.java
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jar/scala/actors/threadpool/Arrays.java
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*/
/**
* Returns an array containing all of the elements in this queue, in
* proper sequence.
* *
* <p>The returned array will be "safe" in that no references to it are
* maintained by this queue. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
* *
* <p>This method acts as bridge between array-based and collection-based
* APIs.
* */
* @return an array containing all of the elements in this queue
 */

Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/LinkedBlockingQueue.java
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1.1130 bind 9.9.4 74.el7_6.1
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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

------------------------------------------------------------------

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.1131 mailx 12.4-10.el6_10

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* hmac.c is derived from:

Network Working Group   H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational   M. Bellare
UCSD
   R. Canetti
IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source,
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Theodore Ts'o
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)

cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS)
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)

cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB)

install-shlibs install:: $(BSD_LIB)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

$$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$$(RM) -rf pic
$$(RM) -f $(BSD_LIB)
$$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.1142 ltrace 0.7.3-4ubuntu5.1

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References
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* AOL
http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

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------------------------------------------------------------------
from distutils.core import setup

url="http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/

import fpconst

setup(name="fpconst",
    version=fpconst.__version__,
    description="Utilities for handling IEEE 754 floating point special values",
    author="Gregory Warnes",
    author_email="Gregory.R.Warnes@Pfizer.com",
    url = url,
    long_description=fpconst.__doc__,
    py_modules=['fpconst'])

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fpconst: A Python module for handling IEEE 754 floating point special values

Author: Gregory R. Warnes <Gregory.R.Warnes@Pfizer.com>
Date: 2005-02-24
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This module provides 'fpconst' a reference implementation of Python Enhancement Protocol (PEP) 754, "IEEE 754 Floating Point Special Values". See the file pep-0754.txt or http://www.python.org/peps/pep-0754.html for the text of PEP 754.

INSTALLATION

This is a standard Python source package. Consequently, simply unpack the source distribution, change into the directory, and run

    $ Python setup.py install

DOCUMENTATION
See the text of PEP 754 at http://www.python.org/peps/pep-0754.html
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Metadata-Version: 1.0
Name: fpconst
Version: 0.7.2
Summary: Utilities for handling IEEE 754 floating point special values
Home-page: http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/
Author: Gregory Warnes
Author-email: Gregory.R.Warnes@Pfizer.com
License: UNKNOWN
Description: Utilities for handling IEEE 754 floating point special values

This python module implements constants and functions for working with
IEEE754 double-precision special values. It provides constants for
Not-a-Number (NaN), Positive Infinity (PosInf), and Negative Infinity
(NegInf), as well as functions to test for these values.

The code is implemented in pure python by taking advantage of the
'struct' standard module. Care has been taken to generate proper
results on both big-endian and little-endian machines. Some efficiency
could be gained by translating the core routines into C.

See <http://babbage.cs.qc.edu/courses/cs341/IEEE-754references.html>
for reference material on the IEEE 754 floating point standard.

Further information on this package is available at
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1.1149 vim 7.4.160 6.el7_6
1.1149.1 Available under license:
*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda*  *Uganda*  *copying*  *copyright*  *license*
SUMMARY
*iccf*  *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:
http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

== begin of license ==

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- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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=== end of license ===

Note:
- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income
(if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.
The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
- Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
  under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
  Rabobank Lisse, account 3765.05.117
- Swift code: RABO NL 2U
  under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterrueihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif exists("b:current_syntax")
  finish
endif
Open Source Used in Tetration 3.5.1 12235

"Product specification files are case sensitive

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match psfUnquotString +[^\#][^\#]+ contained
syn region psfQuotString start=\+ skip=\+ end=\+ contained

syn match psfObjTag "\^[\-+A-Z0-9a-z]\]+\^[\-+A-Z0-9a-z]\]+* contained
syn match psfAttAbbrev "\<\(fa\|fr\|\[aclqrv\]\)<\|>\|<=\|>=\|=\|=\)=\^\]+ contained
syn match psfObjTags "\^[\-+A-Z0-9a-z]\]+\^[\-+A-Z0-9a-z]\]+\^[\-+A-Z0-9a-z]\]+* contains

syn match psfNumber "\d+ contained
syn match psfFloat "\d+\.\d+ contained
syn match psfLongDate "\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag

syn region psfAttUnquotString matchgroup=psfAttrib start=~\^[\s]*\^[\s]* contained=psfUnquotString,psfComment end=~$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~\^[\s]*\^[\s]* skip=\^[\s]* contained=psfQuotString,psfComment end=~\^[\s]* keepend oneline

" These regions are defined in attempt to do syntax checking for some
" of the attributes.

syn region psfAttTag matchgroup=psfAttrib start="^[\s]*tag\^[\s]+ contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib start="^[\s]*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|supersedes\|superseded_by\)\^[\s]+ contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend
Define the default highlighting.

For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier
delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
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1.1150 python-backports-ssl-match-hostname 3.4.0.2 4.el7
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* /opt/cola/permits/1136417304_1613765685.71/0/javax-inject-2-5-0-b30-sources-2-jar/javax/inject/package-info.java
* /opt/cola/permits/1136417304_1613765685.71/0/javax-inject-2-5-0-b30-sources-2-jar/javax/inject/Singleton.java
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1.1152 rsync 3.1.0-2ubuntu0.4

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1.1158 talloc 2.1.5-0ubuntu0.14.04.1

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/*

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Samba temporary memory allocation functions

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*/

1.1159 jetty-servlets 9.2.15.v20160210

1.1160 apport-symptoms 0.20

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1169 opensaml-messaging-api 3.3.0

1.1170 mountall 2.53

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1.1178 pycrypto 2.6.1-16.el7

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Last updated: 2009-02-28

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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1.1195 vim 7.4.160 5.el7
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   *uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

   VIM REFERENCE MANUAL  by Bram Moolenaar

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   SUMMARY
   *iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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=== end of license ===
Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre	*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.
Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are
on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
   Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
      Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
" Vim syntax file
" Language: Software Distributor product specification file
" (POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

if version < 600
   " Remove any old syntax stuff hanging around
   syn clear
elseif exists("b:current_syntax")
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline

Open Source Used In Tetration 3.5.1 12610


Define the default highlighting.
For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn’t have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier

Open Source Used In Tetration 3.5.1 12611
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment
delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
/*
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Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: urllib3
Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>
Source: http://pypi.python.org/pypi/urllib3

Files: *
Copyright: 2008-2013, Andrey Petrov
License: Expat

Files: urllib3/packages/six.py
Copyright: 2010-2011, Benjamin Peterson
License: Expat

Files: urllib3/packages/ordered_dict.py
Copyright: 2009, Raymond Hettinger
License: Expat

Files: urllib3/packages/ssl_match_hostname/__init__.py
Copyright: 2011, Python Software Foundation
License: PSF-2

Files: debian/*
Copyright: 2012-2013, Daniele Tricoli <eriol@mornie.org>
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSClonePool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSClonePool
* Basic-authenticated HTTPSClonePool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSClonePool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/Brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

1.1197 lshw-b B.02.18-14.el7

1.1197.1 Available under license:

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/* chown-core.c -- core functions for changing ownership.
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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"

#define FTSENT_IS_DIRECTORY(E)\  
  ((E)->fts_info == FTS_D\  
  || (E)->fts_info == FTS_DC\  
  || (E)->fts_info == FTS_DP\  
  || (E)->fts_info == FTS_DNR)

enum RCH_status
{
  /* we called fchown and close, and both succeeded */
  RC_ok = 2,

  /* required_uid and/or required_gid are specified, but don't match */
  RC_excluded,

  /* SAME_INODE check failed */
  RC_inode_changed,

  /* open/fchown isn't needed, isn't safe, or doesn't work due to permissions problems; fall back on chown */
  RC_do_ordinary_chown,

  /* open, fstat, fchown, or close failed */
  RC_error
};

extern void
chopt_init (struct Chown_option *chopt)
{
  chopt->verbosity = V_off;
  chopt->root_dev_ino = NULL;
  chopt->affect_symlink_referent = true;
  chopt->recurse = false;
extern void chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
    /* Deliberately do not free chopt->user_name or ->group_name. 
    * They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory, 
and return it. If there's no corresponding group name, use the decimal 
representation of the ID. */

extern char *
 gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name 
          : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf) 
          : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory, 
and return it. If there's no corresponding user name, use the decimal 
representation of the ID. */

extern char *
 uid_to_name (uid_t uid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct passwd *pwd = getpwuid (uid);
    return xstrdup (pwd ? pwd->pw_name 
          : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf) 
          : umaxtostr (uid, buf));
}

/* Allocate a string representing USER and GROUP. */

static char *
 user_group_str (char const *user, char const *group)
{
    char *spec = NULL;

    if (user)
if (group)
{
    spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
    stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
}
else
{
    spec = xstrdup (user);
}
else if (group)
{
    spec = xstrdup (group);
}
return spec;
}

/* Tell the user how/if the user and group of FILE have been changed. 
   If USER is NULL, give the group-oriented messages. 
   CHANGED describes what (if anything) has happened. */

static void
describe_change (const char *file, enum Change_status changed, 
    char const *old_user, char const *old_group, 
    char const *user, char const *group)
{
    const char *fmt;
    char *old_spec;
    char *spec;

    if (changed == CH_NOT_APPLIED)
    {
        printf (_("neither symbolic link \"%s\" nor referent has been changed\n"), quote (file));
        return;
    }

    spec = user_group_str (user, group);
    old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

    switch (changed)
    {
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of \"%s\" from \"%s\" to \"%s\"\n") 
               : group ? _("changed group of \"%s\" from \"%s\" to \"%s\"\n") 
               : _("no change to ownership of \"%s\"\n"));
        break;
    case CH_FAILED:
        fmt = (user ? _("failed to change ownership of \"%s\" from \"%s\" to \"%s\"\n") 
               : group ? _("failed to change group of \"%s\" from \"%s\" to \"%s\"\n") 
               : _("failed to change ownership of \"%s\"\n"));
        break;
    case CH_NOT_APPLIED:
        fmt = _("appropriate actions not available\n");
        break;
    case CH_NOT_PERMITTED:
        fmt = _("not permitted\n");
        break;
    case CH_DONT_CARE:
        fmt = _("no change made\n");
        break;
    case CH_CANCELED:
        fmt = _("request was canceled\n");
        break;
    }

    printf (_("%s\n"), fmt, file, old_spec, spec);
}
break;
case CH_FAILED:
if (old_spec)
{
    fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
        : group ? _("failed to change group of %s from %s to %s\n")
        : _("failed to change ownership of %s\n");
}
else
{
    fmt = (user ? _("failed to change ownership of %s to %s\n")
        : group ? _("failed to change group of %s to %s\n")
        : _("failed to change ownership of %s\n");
    free (old_spec);
    old_spec = spec;
    spec = NULL;
}
break;
case CH_NO_CHANGE_REQUESTED:
fmt = (user ? _("ownership of %s retained as %s\n")
    : group ? _("group of %s retained as %s\n")
    : _("ownership of %s retained\n");
break;
default:
    abort ();
}

printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call fstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.
Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
        struct stat const *orig_st,
        uid_t uid, gid_t gid,
        uid_t required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;

    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
        return RC_do_ordinary_chown;

    if (! S_ISREG (orig_st->st_mode))
    {
        if (S_ISDIR (orig_st->st_mode))
            open_flags |= O_DIRECTORY;
        else
            return RC_do_ordinary_chown;
    }
    fd = openat (cwd_fd, file, O_RDONLY | open_flags);
    if (! (0 <= fd
        || (errno == EACCES && S_ISREG (orig_st->st_mode)
            && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
        return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

    if (fstat (fd, &st) != 0)
        status = RC_error;
    else if (! SAME_INODE (*orig_st, st))
        status = RC_inode_changed;
    else if (((required_uid == (uid_t) -1 || required_uid == st.st_uid)
        && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
    {
        if (fchown (fd, uid, gid) == 0)
        {
            status = (close (fd) == 0
                ? RC_ok : RC_error);
            return status;
        }
    }
    else
    {
        status = RC_error;
    }
int saved_errno = errno;
close(fd);
errno = saved_errno;
return status;
}

/* Change the owner and/or group of the file specified by FTS and ENT to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
                   uid_t uid, gid_t gid,
                   uid_t required_uid, gid_t required_gid,
                   struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;
    bool do_chown;
    bool symlink_changed = true;

    switch (ent->fts_info)
    {
    case FTS_D:
        if (chopt->recurse)
        {
            if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
            {
                /* This happens e.g., with "chown -R --preserve-root 0 /"
                and with "chown -RH --preserve-root 0 symlink-to-root". */
                ROOT_DEV_INO_WARN (file_full_name);
                /* Tell fts not to traverse into this hierarchy. */
                fts_set (fts, ent, FTS_SKIP);
                /* Ensure that we do not process "/" on the second visit. */
                ignore_value (fts_read (fts));
                return false;
            }
            return true;
        }
        break;
case FTS_DP:
    if (! chopt->recurse)
        return true;
    break;

case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
       indicator is determined at the time of the initial fts_open call.
       With programs like chmod, chown, and chgrp, that modify
       permissions, it is possible that the file in question is
       accessible when control reaches this point. So, if this is
       the first time we've seen the FTS_NS for this file, tell
       fts_read to stat it "again". */
    if (ent->fts_level == 0 && ent->fts_number == 0)
        {
            ent->fts_number = 1;
            fts_set (fts, ent, FTS_AGAIN);
            return true;
        }
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _, "cannot access %s"),
            quote (file_full_name));
    ok = false;
    break;

case FTS_ERR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, "%s", quote (file_full_name));
    ok = false;
    break;

case FTS_DNR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory %s"),
            quote (file_full_name));
    ok = false;
    break;

case FTS_DC:/ directory that causes cycles */
case FTS_DC:
    if (cycle_warning_required (fts, ent))
        {
            emit_cycle_warning (file_full_name);
            return false;
        }
    break;

default:
    break;
if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
    && chopt->verbosity == V_off
    && ! chopt->root_dev_ino
    && ! chopt->affect_symlink_referent)
{
    do_chown = true;
    file_stats = ent->fts_statp;
}
else
{
    file_stats = ent->fts_statp;
}

/* If this is a symlink and we're dereferencing them, 
   stat it to get info on the referent. */
if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
{
    if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
    {
        if (! chopt->force_silent)
            error (0, errno, _("cannot dereference %s"),
                   quote (file_full_name));
        ok = false;
    }
    file_stats = &stat_buf;
}

do_chown = (ok
    && (required_uid == (uid_t) -1
        || required_uid == file_stats->st_uid)
    && (required_gid == (gid_t) -1
        || required_gid == file_stats->st_gid));

/* This happens when chown -LR --preserve-root encounters a symlink-to-/. */
if (ok
    && FTSENT_IS_DIRECTORY (ent)
    && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
if (do_chown)
{
if ( ! chopt->affect_symlink_referent)
{
    ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

    /* Ignore any error due to lack of support; POSIX requires
       this behavior for top-level symbolic links with -h, and
       implies that it's required for all symbolic links. */
    if (!ok && errno == EOPNOTSUPP)
    {
        ok = true;
        symlink_changed = false;
    }
    else
    {
        /* If possible, avoid a race condition with --from=O:G and without the
           (-h) --no-dereference option. If fts's stat call determined
           that the uid/gid of FILE matched the --from=O:G-selected
           owner and group IDs, blindly using chown(2) here could lead
           chown(1) or chgrp(1) mistakenly to dereference a *symlink* to
           an arbitrary file that an attacker had moved into the
           place of FILE during the window between the stat and
           chown(2) calls. If FILE is a regular file or a directory
           that can be opened, this race condition can be avoided safely. */

        enum RCH_status err
            = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                                required_uid, required_gid);
        switch (err)
        {
        case RC_ok:
            break;

        case RC_do_ordinary_chown:
            ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
            break;

        case RC_error:
            ok = false;
            break;

        case RC_inode_changed:
            /* FIXME: give a diagnostic in this case? */
            break;
        case RC_excluded:
do_chown = false;
ok = false;
break;

default:
    abort ();
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && ! chopt->force_silent)
    error (0, errno, (uid != (uid_t) -1
        ? _("changing ownership of %s")
        : _("changing group of %s")),
    quote (file_full_name));

if (chopt->verbosity != V_off)
{
    bool changed =
    ((do_chown && ok && symlink_changed)
            && !(uid == (uid_t) -1 || uid == file_stats->st_uid)
            && (gid == (gid_t) -1 || gid == file_stats->st_gid));

    if (changed || chopt->verbosity == V_high)
    {
        enum Change_status ch_status =
            (!ok ? CH_FAILED
                : !symlink_changed ? CH_NOT_APPLIED
                : !changed ? CH_NO_CHANGE_REQUESTED
                : CH_SUCCEEDED);
        char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
        char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
        describe_change (file_full_name, ch_status,
            old_usr, old_grp,
            chopt->user_name, chopt->group_name);
        free (old_usr);
        free (old_grp);
    }
}

if ( ! chopt->recurse)
fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.
 BIT_FLAGS specifies how to treat each symlink-to-directory
 that is encountered during a recursive traversal.
 CHOPT specifies additional options.
 If UID is not -1, then change the owner id of each file to UID.
 If GID is not -1, then change the group id of each file to GID.
 If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
 files with user ID and group ID that match the non-(-1) value(s).
 Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
           uid_t uid, gid_t gid,
           uid_t required_uid, gid_t required_gid,
           struct Chown_option const *chopt)
{
    bool ok = true;

    /* Use lstat and stat only if they're needed. */
    int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
    || (bit_flags & FTS_AFFECT_SMLK_REFERENT)
    || (bit_flags & FTS_AFFECT_SYMREF REFERENT)
    ? 0 :
    FTS_NOSTAT);

    FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

    while (1)
    {
        FTSENT *ent;

        ent = fts_read (fts);
        if (ent == NULL)
            break;

        /* FIXME: try to give a better message */
        if (! chopt->force_silent)
            error (0, errno, _("fts_read failed");
        ok = false;
    }

    return ok;
}
1.1200 eclipse-osgi-services 3.4.0.v20140312-2051

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BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.
BIRT Engine is a report engine which generates report from defined report and related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

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You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console

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In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by ./xxx.rptdesign

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1.1202 wireless-regdb 2013.02.13-1ubuntu1

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* /opt/ws_local/PERMITS_SQL/1034298782_1588660933.31/0/okhttp-3-12-2-sources-1-jar/okhttp3/Credentials.java
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following 
artifacts may be included in the distribution or downloaded when ALPN 
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications 
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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1216 pythonurllib 1.10.2-7.el7

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIKZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage
* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofoi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts
* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeaders and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <grafratcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.
* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.1220 gsettings-desktop-schemas 3.14.2-1.el7

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

Open Source Used In Tetration 3.5.1 12952
This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

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Thanks, may your castles never deflate!
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Donors

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- initial updates for supporting repeated attributes in CMS.

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David M. Lee &lt;dmlee@crossroads.com&gt; - code for add and remove secret key in the PGP SecretKeyRing class. Additions to S/MIME and CMS unit tests.

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David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrntan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

Jörg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
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<li>Marzio Lo Giudice &lt;marzio.logiudice#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
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<li>Pasi Erkonen &lt;Pasi.Eronen#nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
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<li>Marius Schilder &lt;mschilder#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
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<li>Erik Tews &lt;e_tews#064dccc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;t.dixon#064yahoo.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rjoaquim#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey#allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martrij Brinkers &lt;list#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
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<li>Matthias &lt;g#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
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<li>Germano Rizzo &lt;germano.rizzo#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&uacute;a Mar&aacute; &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
Open Source Used In Tetration 3.5.1

- Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.
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- Peter Knopp &lt;tpknopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.
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- Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
- Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.
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- Gabriele Contini &lt;gcontini@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck &lt;peck@#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay &lt;lemaymd@#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].
- Alex Dupre &lt;ale@#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].
- Michael Schoene &lt;michael@#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedA1Issuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
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- Rui Hodai &lt;ru@#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.
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- Henrik Andersson &lt;k.henrik.andersson@#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.
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Mike Lyons &lt;mlyons@4layer7tech.com&gt;: work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

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<li>Arnis Tartu &lt;arnis@ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
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<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
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<li>Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
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<li>Petar Petrov &lt;p.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson &lt;Andy.Neilson@quest.com&gt; a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj@064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kenny@064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;pilf_b@064yahoo.com&gt; Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bdc@064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lid&eacute;n Borell &lt;samuel@primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes.
cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.

- Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

- Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

- Sergey Tynov &lt;t5555d@064gmail.com&gt; initial cut of DVCS classes.

- Damian Kolasa &lt;fatfredyy@064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

- Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

- Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

- Daniele Ricci &lt;daniele.athome@064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

- Matti Aarnio &lt;matti.aarnio@064memics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

- Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

- Eric M&lt;uuuml;ller &lt;eric.mueller@sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

- Mathias Herberts &lt;Mathias.Herberts@064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

- Daniil Ivanov &lt;daniil.ivanov@064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

- Daniele Grasso &lt;daniele.grasso86@064gmail.com&gt; contributions to final Key calculation code for SRP6.

- Andrey Utkin &lt;cindrhc@064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

- Arnis Tartu &lt;arnis@064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

- AxelVDB &lt;axel-vdb@064riseup.net&gt; initial implementation of Shacal2.

- Roberto Tyley &lt;rtyley@064sage.de&gt; further work on completing gradle build.

- Waldemar Dick &lt;wdick@064devmue.de&gt; code improvement in x500 ASN.1 package.

- Sid Steward &lt;sid.steward@064pdflabs.com&gt; code improvements to ASN1Boolean.

- Alex Klyubin &lt;klyubin@064google.com&gt; &lt;AlgorithmParameters check for EC key agreement.

- Jonathan Gillett &lt;gsoc.student@064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

- Andreas Reiter &lt;andreas.reiter@064aiak.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

- Kieran Miller &lt;kieran.miller@064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

- Oliver Ehlili &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

- Daniel Heldt &lt;Daniel.Heldt@064cryptovision.com&gt; Initial support for encodable state message digests.

- Robert Bushman &lt;bouncycastle@064traxel.com&gt; Clean up of DirectKeySignature example.

- Maurice Aarts &lt;maarts@064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.
Franziskus Kiefer [https://github.com/franziskuskiefer]: initial implementation of Cramer-Shoup.

KB Sriram [mail_kb@#064yahoo.com]: testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze [marco@#064nightlabs.de]: Reported verification bug in GenericSigner.

Martin Schaefer [https://github.com/martinschaefer]: contributed a code-cleanup patch.

dstutz [https://github.com/dstutz]: added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich [tobias.wich@#064ecsec.de]: Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens [hauke@#064hauke-m.de]: TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman [dmz@#064galois.com]: Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza [j.kapitza@#064schwarze-allianz.de]: Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund [johan@#064primekey.se]: update to RFC 6960 for OCSPObjectIdentifiers.

nikosn [https://github.com/nikosn]: Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch [axel-vdb@#064riseup.net]: Contributions to BCrypt/OpenBSDCrypt, original version of Blake2bDigest.

Derek Atkins [derek@#064htfp.com]: Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky [peto@#064halicky.sk]: Correction to notification/error message handling in SignedMailValidator.

lartiguePierre [https://github.com/lartiguePierre]: Fix for counter signature SID in CMSSignedData.

Thomas Belot [thomas.belot@BC@#064gmail.com]: initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce [https://github.com/rdcroce]: Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Bjouml;n Kautler [https://github.com/Vampire]: Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Sch@uml;rmann [https://github.com/dschuermann]: method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael [MSKnete@#064web.de]: initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Leonard Dallot [https://github.com/dallotTazTag]: Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen [j.w.janssen@bouncycastle@#064lxtemple.nl]: Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding [sebastian.oerding@robotron.de]: Fixes to toString() in x509.CertificatePolicies.

Kai Kramer [kai.kramer@#064gmail.com]: Code to deal with orphaned chain certificates in the PKCS#12...
KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95@064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat &lt;lukasz.deputat@064gmail.com&gt; Fixed bugs in TlsUtils read methods [BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGableObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&eacute;eacutet; Berengu&eacute; &lt;https://github.com/aberengu&eacute;&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski &lt;https://github.com/slaweckjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77@064gmail.com&gt; Fixed bug in Poly1305 [BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle@064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;gizarozi@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storozh72@064gmail.com&gt; N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;storozh72@064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;andreas.glaser@064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>
<li>Scott Woodward &lt;scott@#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>Chris Mccown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkei, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ekci&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSAEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier@gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to IecKeyTransRecipientInfoGenerator, tests for JournaledSecureRandom, initial implementation of JournaledAlgorithm.
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Moses Palmé &lt;https://github.com/trueSec&gt; Additional improvements to constant time comparisons.</li>
<li>René &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;https://github.com/TobiasOspelt&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.1238 snappy-java 1.0.4.1

1.1239 bcel 2.7.1

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1ubuntu1
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import org.apache.hadoop.HadoopIllegalArgumentException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hdfs.protocol.DatanodeInfo;

/**
 * The setting of replace-datanode-on-failure feature.
 */
@InterfaceAudience.Private
@InterfaceStability.Evolving
public enum ReplaceDatanodeOnFailure {
    /** The feature is disabled in the entire site. */
    DISABLE,
    /** Never add a new datanode. */
    NEVER,
    /**
     * DEFAULT policy:
     * Let r be the replication number.
     * Let n be the number of existing datanodes.
     * Add a new datanode only if r >= 3 and either
     * (1) floor(r/2) >= n; or
     * (2) r > n and the block is hflushed/appended.
     */
    DEFAULT,
    /** Always add a new datanode when an existing datanode is removed. */
    ALWAYS;

    /** Check if the feature is enabled. */
    public void checkEnabled() {
        if (this == DISABLE) {
            throw new UnsupportedOperationException(
                "This feature is disabled. Please refer to "+ DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY
                + " configuration property.");
        }
    }

    /** Is the policy satisfied? */
    public boolean satisfy(
        final short replication, final DatanodeInfo[] existings,
        final boolean isAppend, final boolean isHflushed) {

final int n = existings == null? 0: existings.length;
if (n == 0 || n >= replication) {
    // don't need to add datanode for any policy.
    return false;
} else if (this == DISABLE || this == NEVER) {
    return false;
} else if (this == ALWAYS) {
    return true;
} else {
    // DEFAULT
    if (replication < 3) {
        return false;
    } else {
        if (n <= (replication/2)) {
            return true;
        } else {
            return isAppend || isHflushed;
        }
    }
}

/** Get the setting from configuration. */
public static ReplaceDatanodeOnFailure get(final Configuration conf) {
    final boolean enabled = conf.getBoolean(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY,
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_DEFAULT);
    if (!enabled) {
        return DISABLE;
    }
    final String policy = conf.get(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY,
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_DEFAULT);
    for(int i = 1; i < values().length; i++) {
        final ReplaceDatanodeOnFailure rdof = values()[i];
        if (rdof.name().equalsIgnoreCase(policy)) {
            return rdof;
        }
    }
    throw new HadoopIllegalArgumentException("Illegal configuration value for " +
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY + ": " + policy);
}

/** Write the setting to configuration. */
public void write(final Configuration conf) {
    conf.setBoolean(}
DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY,
this != DISABLE);
conf.set(
    DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY,
    name());
}
}
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 */
package org.apache.hadoop.hdfs.web.resources;

import static org.apache.hadoop.hdfs.DFSConfigKeys.DFS_REPLICATION_DEFAULT;
import static org.apache.hadoop.hdfs.DFSConfigKeys.DFS_REPLICATION_KEY;
import org.apache.hadoop.conf.Configuration;

/** Replication parameter. */
public class ReplicationParam extends ShortParam {
    /** Parameter name. */
    public static final String NAME = "replication";
    /** Default parameter value. */
    public static final String DEFAULT = NULL;
    private static final Domain DOMAIN = new Domain(NAME);

    /** Constructor. */
    public ReplicationParam(final Short value) {
        super(DOMAIN, value, (short)1, null);
    }

/**
 * Constructor.
 * @param str a string representation of the parameter value.
 */
public ReplicationParam(final String str) {
    this(DOMAIN.parse(str));
}

@Override
public String getName() {
    return NAME;
}

/** @return the value or, if it is null, return the default from conf. */
public short getValue(final Configuration conf) {
    return getValue() != null? getValue(): (short)conf.getInt(DFS_REPLICATION_KEY, DFS_REPLICATION_DEFAULT);
}

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 */

package org.apache.hadoop.hdfs.web.resources;

import org.apache.hadoop.fs.permission.FsPermission;

/** Permission parameter, use a Short to represent a FsPermission. */
public class PermissionParam extends ShortParam {
    /** Parameter name. */
    public static final String NAME = "permission";
    /** Default parameter value. */
    public static final String DEFAULT = NULL;
    private static final Domain DOMAIN = new Domain(NAME, 8);

    /** Permission parameter, use a Short to represent a FsPermission. */
    public class PermissionParam extends ShortParam {
        /** Parameter name. */
        public static final String NAME = "permission";
        /** Default parameter value. */
        public static final String DEFAULT = NULL;

        private static final Domain DOMAIN = new Domain(NAME, 8);
private static final short DEFAULT_PERMISSION = 0755;

/** @return the default FsPermission. */
public static FsPermission getDefaultFsPermission() {
    return new FsPermission(DEFAULT_PERMISSION);
}

/**
 * Constructor.
 * @param value the parameter value.
 */
public PermissionParam(final FsPermission value) {
    super(DOMAIN, value == null? null: value.toShort(), null, null);
}

/**
 * Constructor.
 * @param str a string representation of the parameter value.
 */
public PermissionParam(final String str) {
    super(DOMAIN, DOMAIN.parse(str), (short)0, (short)01777);
}

@Override
public String getName() {
    return NAME;
}

/** @return the represented FsPermission. */
public FsPermission getFsPermission() {
    final Short v = getValue();
    return new FsPermission(v != null? v: DEFAULT_PERMISSION);
}

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1.1246 libalgorithmerge-perl 0.08-2

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NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3(@ancestor, @a, @b);

@diff = diff3(@ancestor, @a, @b, $key_generation_function);

$diff = diff3(@ancestor, @a, @b);

$diff = diff3(@ancestor, @a, @b, $key_generation_function);

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
USAGE
This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the 'original' list. The second list is the 'left' list. The third list is the 'right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},

traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the
current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

B_DIFF
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first
and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an 'Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
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#  
# For testing:
#  
sub main::diag {
    warn join(',', @_), "\n";

print join(" ", merge(
# print Data::Dumper -> Dump([
#   merge(
#     # [qw(a b c d       h i j)], # ancestor
#     # [qw(a b c d f     h i j)], # left
#     # [qw(a b c e g     )], # right
#     qw(0 1 2 3 4 7 9 b),
#     qw(0 6 8 a b)],
#     qw(0 1 2 3 5 8 a b]),
#    CONFLICT => sub ($$) { (q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>})
#   },
# ), "un";
#)), "un";
# print join(" ", @{
#   qw(0 1 @ < 3 | # > 6])
# } ), "un";

1;
__END__

1;
__END__

=head1 NAME
Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(@ancestor, @a, @b, {
  CONFLICT => sub { }
});

@merged = merge(@ancestor, @a, @b, {
  CONFLICT => sub { }, $key_generation_function);

$merged = merge(@ancestor, @a, @b, {
This module complements L<Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff>. See L<Algorithm::Diff> for more information.
Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a',   'a',   'a' ],
[ 'u', 'b',   'b',   'b' ],
[ 'l', 'c',   undef, 'c' ],
[ 'o', undef, 'd',   'd' ],
[ 'u', 'e',   'e',   'e' ],
[ 'r', 'f',   'f',   undef ],
[ 'o', 'h',   'g',   'h' ],
[ 'u', 'i',   'i',   'i' ],
[ 'o', undef, 'j',   'j' ],
[ 'u', 'k',   'k',   'k' ]

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.
The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(.@left),
q{<!-- ---------------------------- -->},
(.@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.
=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.
L<Algorithm::Diff|Algorithm::Diff>`s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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1.1247 python-backports-ssl-match-hostname 3.5.0.1-1.ph3

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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1.1254 libpng 1.2.44

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(AGC@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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it with the complete corresponding machine-readable source code, which
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

@display
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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@appendixsubsec Preamble

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Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

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it too, but we suggest you first think carefully about whether this
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use in any particular case, based on the explanations below.

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For example, if you distribute copies of the library, whether gratis
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the `Lesser` General Public License because it does `Less` to protect the user's freedom than the ordinary General Public License. It also provides other free software developers `Less` of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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copyright law: that is to say, a work containing the Library or a
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@end enumerate

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@item
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Library will still fall under Section 6.)

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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2. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at
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specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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It is currently maintained by Marco d'Itri <md@linux.it>.

Original sources were obtained from:
git://ozlabs.org/~paulus/ppp.git

The options file was originally obtained from:
ftp://sunsite.unc.edu/pub/Linux/system/Network/serial/pppopt.tgz

It was later heavily modified by various people, with additions from different sources.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*
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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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1.1276 policykit 0.105-4ubuntu3.14.04.6

1.1277 linux-kernel 3.10.0-1127
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On all platforms, Nmap is normally linked with:
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http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
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- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with/liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

On Windows only, Nmap uses:
- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

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Zenmap and Ndiff require:
- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

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- Various X.org libraries. These were built using MacPorts.
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Written by:       Philip Hazel
Email local part: ph10
Email domain:     cam.ac.uk

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Written by: Philip Hazel
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1.1314 libhttp-negotiate-perl 6.00-2

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=head1 NAME

HTTP::Negotiate - choose a variant to serve

=head1 SYNOPSIS

use HTTP::Negotiate qw(choose);

# ID       QS     Content-Type   Encoding Char-Set        Lang   Size
$variants =
        ['var1', 1.000, 'text/html',   undef,   'iso-8859-1',   'en',   3000],
        ['var2', 0.950, 'text/plain',  'gzip',  'us-ascii',     'no',    400],
        ['var3', 0.3,   'image/gif',   undef,   undef,          undef, 43555],
    ];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

=head1 DESCRIPTION

This module provides a complete implementation of the HTTP content negotiation algorithm specified in F<draft-ietf-http-v11-spec-00.ps> chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among.

Each element in this array is an array with the values [Sid, $qs,
$content_type, $content_encoding, $charset, $content_language,
$content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this
parameter is missing, then the accept specification is initialized from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). I<E.g.>: 

([‘var1’, 1, 2000], [‘var2’, 0.3, 512], [‘var3’, 0.3, 1024]);

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or C<undef> if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

=head1 VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use C<undef> instead.

=item identifier

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().

=item qs

This is a number between 0.000 and 1.000 that describes the "source quality". This is what F<draft-ietf-http-v11-spec-00.ps> says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".
=item content-type

This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

  text/html
  text/html;version=2.0
  text/plain
  image/gif
  image/jpg

=item content-encoding

This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

  gzip
  compress

=item content-charset

This is the character set used when the variant contains text. The charset value should generally be C<undef> or one of these:

  us-ascii
  iso-8859-1 ... iso-8859-9
  iso-2022-jp
  iso-2022-jp-2
  iso-2022-kr
  unicode-1-1
  unicode-1-1-utf-7
  unicode-1-1-utf-8

=item content-language

This describes one or more languages that are used in the variant. Language is described like this in F<draft-ietf-http-v11-spec-00.ps>: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

  no     Norwegian
This is the number of bytes used to represent the content.

The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from F<draft-ietf-http-v11-spec-00.ps>):

This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.

For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1
=item Accept-Encoding

Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

=item Accept-Language

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension).

=back

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=head1 AUTHOR

Gisle Aas <gisle@aas.no>

cut

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NAME

HTTP::Negotiate - choose a variant to serve
SYNOPSIS

```perl
use HTTP::Negotiate qw(choose);

# ID       QS     Content-Type   Encoding Char-Set        Lang   Size
$variants =
[[ 'var1',  1.000, 'text/html',   undef,   'iso-8859-1',   'en',   3000],
 ['var2',  0.950, 'text/plain',  'gzip',  'us-ascii',     'no',   400],
 ['var3',  0.3,   'image/gif',   undef,   undef,          undef, 43555],
 ];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);
```

DESCRIPTION

This module provides a complete implementation of the HTTP content negotiation algorithm specified in draft-ietf-http-v11-spec-00.ps chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [$id, $qs, $content_type, $content_encoding, $charset, $content_language, $content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). *E.g.*:

```perl
([var1', 1, 2000], [var2', 0.3, 512], [var3', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or `undef' if none have non-zero quality.
If the `HTTP::Negotiate::DEBUG` variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of `choose()`.

**VARIANTS**

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use ``undef` instead.

**identifier**

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by `choose()`.

**qs**

This is a number between 0.000 and 1.000 that describes the "source quality". This is what draft-ietf-http-v11-spec-00.ps says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".

**content-type**

This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

- text/html
- text/html;version=2.0
- text/plain
- image/gif
- image/jpg

**content-encoding**

This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

- gzip
- compress

**content-charset**

This is the character set used when the variant contains text. The charset value should generally be ``undef` or one of these:
content-language
This describes one or more languages that are used in the variant.
Language is described like this in draft-ietf-http-v11-spec-00.ps: A
language is in this context a natural language spoken, written, or
otherwise conveyed by human beings for communication of information
to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

no Norwegian
en International English
en-US US English
en-cockney

content-length
This is the number of bytes used to represent the content.

ACCEPT HEADERS
The following Accept* headers can be used for describing content
preferences in a request (This description is an edited extract from
draft-ietf-http-v11-spec-00.ps):

Accept
This header can be used to indicate a list of media ranges which are
acceptable as a response to the request. The "*" character is used to
group media types into ranges, with "*/*" indicating all media types
and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which
represents the user's preference for that range of media types. The
parameter mbx gives the maximum acceptable size of the response
content. The default values are: q=1 and mbx=infinity. If no Accept
header is present, then the client accepts all media types with q=1.

For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic
would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

Accept-Charset
Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1

Accept-Encoding
Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

Accept-Language
This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension).

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1.1316 api-asn1-api 1.0.0-M20
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1.1317 ipmi-tool 1.8.18 7.el7

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1.1318 python-retry 0.9.2-1.tet

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1.1319 jniloader 1.1

1.1320 sudo 1.8.9p5-1ubuntu1.4

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pete
Brown, Jerry
Burr, Michael E
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
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Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
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Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
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Hieb, Dave
Holloway, Nick
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Jackson, Brian
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Jackson, Richard L., Jr.
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Jepeway, Chris
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
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Kienenberger, Mike
King, Dale
King, Michael
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
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Kopeek, Daniel
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Makey, Jeff
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Minier, Loc
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Morris, Charles
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Nikitser, Peter A.
Nussel, Ludwig
Paquet, Eric
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Percival, Ted
Perera, Andres
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Reid, Steve
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Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Scott, Dougal
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Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Spangler, Aaron
The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe  
Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Gezer, Volkan  
Hamasaki, Takeshi  
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1.1321 libnss-mdns 0.10-6

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Douglas Gilbert
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1.1334 python-inotify 0.9.1-1.el6

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1.1335 polkit 0.116

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1.1336 opensaml-soap-api 3.3.0

1.1337 psutil 5.1.3-1.tet
1.1337.1 Available under license:
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1.1338 libjpeg 6b
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====================================================================
README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
======================
This file contains the following sections:

OVERVIEW       General description of JPEG and the IJG software.
LEGAL ISSUES   Copyright, lack of warranty, terms of distribution.
REFERENCES     Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO          Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc     How to configure and install the IJG software.
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,
                 rdjpgcom, and wrjpgcom.
*.1             Unix-style man pages for programs (same info as usage.doc).
wizard.doc      Advanced usage instructions for JPEG wizards only.
change.log      Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc     How to use the JPEG library in your own programs.
example.c       Sample code for calling the JPEG library.
structure.doc   Overview of the JPEG library's internal structure.
filelist.doc    Road map of IJG files.
coderules.doc   Coding style rules --- please read if you contribute code.
Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."
REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
1.1339 node-ansi-color-table 1.0.0-1

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1.1340 jetty-servlets 9.2.24.v20180105

1.1341 commons-digester 2.1

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1.1342 lzo 2.06-1.el6

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for making modifications to it. "Object code" means any non-source
form of a work.

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(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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control those activities. However, it does not include the work's
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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU Bourne Again shell) for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey
"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
    id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
    id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
    id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

> Hi. I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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c End:
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Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwrw/CWRU-2.1-ins)
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1.1353 jackson-xc 2.8.4

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Jan Holmberg, <jan@artech.net> :
o Memory framework
o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :
o MISC checker redesign
o Scheduler framework extension to support
  child process handling.
o Daemon framework extension to block SIGCHLD
to only receive it when its unblocked in the
  scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
o Added dont_track_primary, nopreempt,
  preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :
o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :
o Extended VRRP framework to support floating
  priority.

1.1361 dracut 033 359.el7
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1.1362 linux-meta-lts-xenial 4.4.0.148.130

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1.1366 lua 5.3.4

1.1367 libhtml-tagset-perl 3.20-2
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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

perl Makefile.PL
make
make test
make install
If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

perl Makefile.PL LIB=~/.perl

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like
C<HTML::Element> or C<HTML::TreeBuilder> ) that use C<HTML::Tagset>'s data tables by altering the data tables themselves. You are welcome to try, but be careful; and be aware that different modules may or may react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing> HTML -- for example, C<%isHeadOrBodyElement> lists the tagnames for all elements that can appear either in the head or in the body, such as "script". That doesn't mean that I am saying your code that produces HTML should feel free to put script elements in either place! If you are producing programs that spit out HTML, you should be I<intimately> familiar with the DTDs for HTML or XHTML (available at C<http://www.w3.org/>), and you should slavishly obey them, not the data tables in this document.

=head1 SEE ALSO
L<HTML::Element>, L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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=head1 ACKNOWLEDGEMENTS
Most of the code/data in this module was adapted from code written by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR
Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

=head1 BUGS
Please report any bugs or feature requests to C<bug-html-tagset at rt.cpan.org>, or through the web interface at L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=HTML-Tagset>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.
1.1368 fuse 2.9.2 11.el7
1.1368.1 Available under license:

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BIRT Runtime

What is it?

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

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You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console

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In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign

xxx.rptdesign is the design file. If the design file is in the current directory, you have to specify it by \xxx.rptdesign

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1396 python-singledispatch 3.4.0.2-2.el6
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* /opt/cola/permits/1135381742_1613510869.3/0/python-singledispatch-3.4.0.2-2.el6.src.rpm-cosi-expand-archive-
  oYnafmPG/python-singledispatch.spec
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Metadata-Version: 1.1
Name: singledispatch
Version: 3.4.0.2
Summary: This library brings functools.singledispatch from Python 3.4 to Python 2.6-3.3.
Home-page: http://docs.python.org/3/library/functools.html#functools.singledispatch
Author: ukasz Langa
Author-email: lukasz@langa.pl
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Description: =============
singledispatch

==============

`PEP 443 <http://www.python.org/dev/peps/pep-0443/>`_ proposed to expose a mechanism in the `functools` standard library module in Python 3.4 that provides a simple form of generic programming known as single-dispatch generic functions.

This library is a backport of this functionality to Python 2.6 - 3.3.

To define a generic function, decorate it with the `@singledispatch` decorator. Note that the dispatch happens on the type of the first argument, create your function accordingly::

```python
>>> from singledispatch import singledispatch
>>> @singledispatch
... def fun(arg, verbose=False):
...     if verbose:
...         print("Let me just say,", end=" ")
...     print(arg)
```

To add overloaded implementations to the function, use the `register()` attribute of the generic function. It is a decorator, taking a type parameter and decorating a function implementing the operation for that type::

```python
>>> @fun.register(int)
... def _(arg, verbose=False):
...     if verbose:
...         print(\"Strength in numbers, eh?\", end=\" ")
...     print(arg)
```

```python
>>> @fun.register(list)
... def _(arg, verbose=False):
...     if verbose:
...         print(\"Enumerate this:\")
...     for i, elem in enumerate(arg):
...         print(i, elem)
```

To enable registering lambdas and pre-existing functions, the `register()` attribute can be used in a functional form::

```python
>>> def nothing(arg, verbose=False):
...     print("Nothing.")
... >>> fun.register(type(None), nothing)
```

The `register()` attribute returns the undecorated function which
enables decorator stacking, pickling, as well as creating unit tests for each variant independently:

```python
>>> @fun.register(float)
... @fun.register(Decimal)
... def fun_num(arg, verbose=False):
...     if verbose:
...         print('Half of your number:', end=' ')
...         print(arg / 2)
... >>> fun_num is fun
False
```

When called, the generic function dispatches on the type of the first argument:

```python
>>> fun("Hello, world.")
Hello, world.
>>> fun("test.", verbose=True)
Let me just say, test.
>>> fun(42, verbose=True)
Strength in numbers, eh? 42
```

Where there is no registered implementation for a specific type, its method resolution order is used to find a more generic implementation. The original function decorated with `@singledispatch` is registered for the base `object` type, which means it is used if no better implementation is found.

To check which implementation will the generic function choose for a given type, use the `dispatch()` attribute:

```python
>>> fun.dispatch(float)
<function fun_num at 0x1035a2840>
>>> fun.dispatch(dict)    # note: default implementation
<function fun at 0x103fe0000>
```

To access all registered implementations, use the read-only `registry`
attribute::

>>> fun.registry.keys()
dict_keys([<class 'NoneType'>, <class 'int'>, <class 'object'>,
            <class 'decimal.Decimal'>, <class 'list'>,
            <class 'float'>])

>>> fun.registry[float]
<function fun_num at 0x1035a2840>

>>> fun.registry[object]
<function fun at 0x103fe0000>

The vanilla documentation is available at
http://docs.python.org/3/library/functools.html#functools.singledispatch.

Versioning
----------

This backport is intended to keep 100% compatibility with the vanilla
release in Python 3.4+. To help maintaining a version you want and
expect, a versioning scheme is used where:

* the first three numbers indicate the version of Python 3.x from which the
  backport is done

* a backport release number is provided after the last dot

For example, ``3.4.0.0`` is the **first** release of ``singledispatch``
compatible with the library found in Python **3.4.0**.

A single exception from the 100% compatibility principle is that bugs
fixed before releasing another minor Python 3.x.y version **will be
included** in the backport releases done in the mean time. This rule
applies to bugs only.

Maintenance
-----------

This backport is maintained on BitBucket by ukasz Langa, one of the
members of the core CPython team:

* `singledispatch Mercurial repository <https://bitbucket.org/ambv/singledispatch>`_

* `singledispatch issue tracker <https://bitbucket.org/ambv/singledispatch/issues>`_

Change Log
3.4.0.2

Updated to the reference implementation as of 02-July-2013.

* more predictable dispatch order when abstract base classes are in use: abstract base classes are now inserted into the MRO of the argument's class where their functionality is introduced, i.e. issubclass(cls, abc) returns True for the class itself but returns False for all its direct base classes. Implicit ABCs for a given class (either registered or inferred from the presence of a special method like __len__) are inserted directly after the last ABC explicitly listed in the MRO of said class. This also means there are less "ambiguous dispatch" exceptions raised.

* better test coverage and improved docstrings

3.4.0.1

Updated to the reference implementation as of 31-May-2013.

* better performance

* fixed a corner case with PEP 435 enums

* calls to `dispatch()` also cached

* dispatching algorithm now a module-level routine called `__find_impl()` with a simplified implementation and proper documentation

* `dispatch()` now handles all caching-related activities

* terminology more consistent: "overload" -> "implementation"

3.4.0.0

* the first public release compatible with 3.4.0

Conversion Process

This section is technical and should bother you only if you are wondering how this backport is produced. If the implementation details
of this backport are not important for you, feel free to ignore the following content.

``singledispatch`` is converted using `six <http://pypi.python.org/pypi/six>`_ so that a single codebase can be used for all compatible Python versions. Because a fully automatic conversion was not doable, I took the following branching approach:

* the `upstream` branch holds unchanged files synchronized from the upstream CPython repository. The synchronization is currently done by manually copying the required code parts and stating from which CPython changeset they come from. The tests should pass on Python 3.4 on this branch.

* the `default` branch holds the manually translated version and this is where all tests are run for all supported Python versions using tox.

Keywords: single dispatch generic functions singledispatch genericfunctions decorator backport
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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1.1397 spice 0.14.0-6.el7_6.1

1.1397.1 Available under license:

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.1412 glib 2.56.1 5.el7

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcmfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.

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1.1433 kerb-server 1.0.1

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1.1434 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.1435 libusb-compat 0.1.12-23.el6

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate
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<signature of Ty Coon>, 1 April 1989
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corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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setup a large build machine, then tune the build process and help improve
the overall build, test and validate process we were using. This build
machine he donated to the project was about 5 times more capable than the
entire buildsystem we had. And he did this out of his own pocket, from
his own time, and has since upgraded the machine as well. It's now a 128GB,
48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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1.1442 libxv 1.0.9 2.1.el6

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1.1445 autotools-dev 20130810.1

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Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

John
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit, of course). Is it OK if I do that?

Chet Ramey

`The lyf so short, the craft so long to lerne.' - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@gnu.ai.mit.edu Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@gnu.ai.mit.edu
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Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
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I've modified a (modified) version of Bill Rosenblatt's ksh debugger
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That's great!

Go ahead and circulate it; in fact, we should probably grab it and
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.1451 libusbx 1.0.17-1ubuntu2

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1.1454 perl-parent 0.225-244.el7

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=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);
DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

```perl
package Baz;
BEGIN {
    require Foo;
    require Bar;
    push @ISA, qw(Foo Bar);
}
```

By default, every base class needs to live in a file of its own. If you want to have a subclass and its parent class in the same file, you can tell `parent` not to load any modules by using the `<norequire>` switch:

```perl
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm
```

This is equivalent to the following code:

```perl
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';
```

This is also helpful for the case where a package lives within a differently named file:

```perl
package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';
```

This is equivalent to the following code:

```perl
package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';
```

If you want to load a subclass from a file that `require` would not consider an eligible filename (that is, it does not end in either `<.pm>` or `<.pmc>`), use the following code:
package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 DIAGNOSTICS

=over 4

=item Class 'Foo' tried to inherit from itself

Attempting to inherit from yourself generates a warning.

    package Foo;
    use parent 'Foo';

=back

=head1 HISTORY

This module was forked from L<base> to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L<base>

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER

Max Maischein C< corion@cpan.org >

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Based on the idea of C<base.pm>, which was introduced with Perl 5.004_04.

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=cut

Found in path(s):
* /opt/cola/permits/1135855366_1613616262.38/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-wd0a32TY/parent-0.225.tar.gz-cosi-expand-archive-ioVU843z/parent-0.225/lib/parent.pm
No license file was found, but licenses were detected in source scan.

license: unknown

Found in path(s):
* /opt/cola/permits/1135855366_1613616262.38/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-wd0a32TY/parent-0.225.tar.gz-cosi-expand-archive-ioVU843z/parent-0.225/META.yml

No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1135855366_1613616262.38/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-wd0a32TY/perl-parent.spec

1.1455 underscore 1.7.0~dfsg-1

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Tests included here are based on build output generated by the six-speed benchmark suite.

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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=head1 NAME

Tie::IxHash - ordered associative arrays for Perl

=head1 SYNOPSIS

# simple usage
use Tie::IxHash;
tie HASHVARIABLE, 'Tie::IxHash' [, LIST];

# OO interface with more powerful features
use Tie::IxHash;
TIEOBJECT = Tie::IxHash->new( [LIST] );
TIEOBJECT->Splice( OFFSET [, LENGTH [, LIST]] );
TIEOBJECT->Push( LIST );
TIEOBJECT->Pop;
TIEOBJECT->Shift;
TIEOBJECT->Unshift( LIST );
TIEOBJECT->Keys( [LIST] );
TIEOBJECT->Values( [LIST] );
TIEOBJECT->Indices( LIST );
TIEOBJECT->Delete( [LIST] );
TIEOBJECT->Replace( OFFSET, VALUE, [KEY] );
TIEOBJECT->Reorder( LIST );
TIEOBJECT->SortByKey;
TIEOBJECT->SortByValue;
TIEOBJECT->Length;

=head1 DESCRIPTION
This Perl module implements Perl hashes that preserve the order in which the hash elements were added. The order is not affected when values corresponding to existing keys in the IxHash are changed. The elements can also be set to any arbitrary supplied order. The familiar perl array operations can also be performed on the IxHash.

=head2 Standard C<TIEHASH> Interface

The standard C<TIEHASH> mechanism is available. This interface is recommended for simple uses, since the usage is exactly the same as regular Perl hashes after the C<tie> is declared.

=head2 Object Interface

This module also provides an extended object-oriented interface that can be used for more powerful operations with the IxHash. The following methods are available:

=over 8

=item FETCH, STORE, DELETE, EXISTS

These standard C<TIEHASH> methods mandated by Perl can be used directly. See the C<tie> entry in perlfunc(1) for details.

=item Push, Pop, Shift, Unshift, Splice

These additional methods resembling Perl functions are available for operating on key-value pairs in the IxHash. The behavior is the same as the corresponding perl functions, except when a supplied hash key already exists in the hash. In that case, the existing value is updated but its order is not affected. To unconditionally alter the order of a supplied key-value pair, first C<DELETE> the IxHash element.

=item Keys

Returns an array of IxHash element keys corresponding to the list of supplied indices. Returns an array of all the keys if called without arguments. Note the return value is mostly only useful when used in a list context (since perl will convert it to the number of elements in the array when used in a scalar context, and that may not be very useful).

If a single argument is given, returns the single key corresponding to the index. This is usable in either scalar or list context.

=item Values
Returns an array of IxHash element values corresponding to the list of supplied indices. Returns an array of all the values if called without arguments. Note the return value is mostly only useful when used in a list context (since perl will convert it to the number of elements in the array when used in a scalar context, and that may not be very useful).

If a single argument is given, returns the single value corresponding to the index. This is usable in either scalar or list context.

=item Indices

Returns an array of indices corresponding to the supplied list of keys. Note the return value is mostly only useful when used in a list context (since perl will convert it to the number of elements in the array when used in a scalar context, and that may not be very useful).

If a single argument is given, returns the single index corresponding to the key. This is usable in either scalar or list context.

=item Delete

Removes elements with the supplied keys from the IxHash.

=item Replace

Substitutes the IxHash element at the specified index with the supplied value-key pair. If a key is not supplied, simply substitutes the value at index with the supplied value. If an element with the supplied key already exists, it will be removed from the IxHash first.

=item Reorder

This method can be used to manipulate the internal order of the IxHash elements by supplying a list of keys in the desired order. Note however, that any IxHash elements whose keys are not in the list will be removed from the IxHash.

=item Length

Returns the number of IxHash elements.

=item SortByKey

Reorders the IxHash elements by textual comparison of the keys.

=item SortByValue
Reorders the IxHash elements by textual comparison of the values.

=item Clear

Resets the IxHash to its pristine state: with no elements at all.

=back

=head1 EXAMPLE

use Tie::IxHash;

# simple interface
$t = tie(%myhash, 'Tie::IxHash', 'a' => 1, 'b' => 2);
%myhash = (first => 1, second => 2, third => 3);
$myhash{fourth} = 4;
@keys = keys %myhash;
@values = values %myhash;
print("y") if exists $myhash{third};

# OO interface
$t = Tie::IxHash->new(first => 1, second => 2, third => 3);
$t->Push(fourth => 4);  # same as $myhash{fourth} = 4;
($k, $v) = $t->Pop;     # $k is 'fourth', $v is 4
$t->Unshift(neg => -1, zeroth => 0);
($k, $v) = $t->Shift;   # $k is 'neg', $v is -1
@oneandtwo = $t->Splice(1, 2, foo => 100, bar => 101);

@keys = $t->Keys;
@values = $t->Values;
@indices = $t->Indices('foo', 'zeroth');
@itemkeys = $t->Keys(@indices);
@itemvals = $t->Values(@indices);
$t->Replace(2, 0.3, 'other');
$t->Delete('second', 'zeroth');
$len = $t->Length;     # number of key-value pairs

$t->Reorder(reverse @keys);
$t->SortByKey;
$t->SortByValue;

=head1 BUGS

You cannot specify a negative length to C<Splice>. Negative indexes are OK, though.
=head1 NOTE

Indexing always begins at 0 (despite the current C<$[> setting) for all the functions.

=head1 TODO

Addition of elements with keys that already exist to the end of the IxHash must be controlled by a switch.

Provide C<TIEARRAY> interface when it stabilizes in Perl.

Rewrite using XSUBs for efficiency.

=head1 AUTHORT

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=head1 VERSION

Version 1.23

=head1 SEE ALSO

perl(1)

=cut

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1.1479 openssl 1.0.2o

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libcurl http://curl.haxx.se/docs/copyright.html

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1.1481 perl-http-daemon 6.01-8.el7

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=head1 NAME

HTTP::Daemon - a simple http server class

=head1 SYNOPSIS

use HTTP::Daemon;
use HTTP::Status;

my $d = HTTP::Daemon->new || die;
print "Please contact me at: <URL: $d->url >
while (my $c = $d->accept) {
    while (my $r = $c->get_request) {
        if ($r->method eq 'GET' and $r->uri->path eq '/xyzzy') {
            # remember, this is *not* recommended practice :-) 
            $c->send_file_response("/etc/passwd");
        } else {
            $c->send_error(RC_FORBIDDEN)
        }
    }
}
Instances of the `HTTP::Daemon` class are HTTP/1.1 servers that listen on a socket for incoming requests. The `HTTP::Daemon` is a subclass of `IO::Socket::INET`, so you can perform socket operations directly on it too.

The accept() method will return when a connection from a client is available. The returned value will be an `HTTP::Daemon::ClientConn` object which is another `IO::Socket::INET` subclass. Calling the get_request() method on this object will read data from the client and return an `HTTP::Request` object. The ClientConn object also provide methods to send back various responses.

This HTTP daemon does not fork(2) for you. Your application, i.e. the user of the `HTTP::Daemon` is responsible for forking if that is desirable. Also note that the user is responsible for generating responses that conform to the HTTP/1.1 protocol.

The following methods of `HTTP::Daemon` are new (or enhanced) relative to the `IO::Socket::INET` base class:

```perl
=item $d = HTTP::Daemon->new
=item $d = HTTP::Daemon->new( %opts )
```

The constructor method takes the same arguments as the `IO::Socket::INET` constructor, but unlike its base class it can also be called without any arguments. The daemon will then set up a listen queue of 5 connections and allocate some random port number.

A server that wants to bind to some specific address on the standard HTTP port will be constructed like this:

```perl
$d = HTTP::Daemon->new(  
    LocalAddr => 'www.thisplace.com',
    LocalPort => 80,
);
```

See `L<IO::Socket::INET>` for a description of other arguments that can
be used configure the daemon during construction.

=item $c = $d->accept

=item $c = $d->accept( $pkg )

=item ($c, $peer_addr) = $d->accept

This method works the same the one provided by the base class, but it returns an C<HTTP::Daemon::ClientConn> reference by default. If a package name is provided as argument, then the returned object will be blessed into the given class. It is probably a good idea to make that class a subclass of C<HTTP::Daemon::ClientConn>.

The accept method will return C<undef> if timeouts have been enabled and no connection is made within the given time. The timeout() method is described in L<IO::Socket>.

In list context both the client object and the peer address will be returned; see the description of the accept method L<IO::Socket> for details.

=item $d->url

Returns a URL string that can be used to access the server root.

=item $d->product_tokens

Returns the name that this server will use to identify itself. This is the string that is sent with the C<Server> response header. The main reason to have this method is that subclasses can override it if they want to use another product name.

The default is the string "libwww-perl-daemon/#.##" where "#.##" is replaced with the version number of this module.

=back

The C<HTTP::Daemon::ClientConn> is a C<IO::Socket::INET> subclass. Instances of this class are returned by the accept() method of C<HTTP::Daemon>. The following methods are provided:

=over 4

=item $c->get_request

=item $c->get_request( $headers_only )
This method reads data from the client and turns it into an \texttt{HTTP::Request} object which is returned. It returns \texttt{undef} if reading fails. If it fails, then the \texttt{HTTP::Daemon::ClientConn} object ($c$) should be discarded, and you should not try call this method again on it. The $c$-\texttt{reason} method might give you some information about why $c$-\texttt{get_request} failed.

The \texttt{get_request()} method will normally not return until the whole request has been received from the client. This might not be what you want if the request is an upload of a large file (and with chunked transfer encoding HTTP can even support infinite request messages - uploading live audio for instance). If you pass a \texttt{TRUE} value as the $\texttt{headers\_only}$ argument, then \texttt{get_request()} will return immediately after parsing the request headers and you are responsible for reading the rest of the request content. If you are going to call \texttt{$c$-\texttt{get_request}} again on the same connection you better read the correct number of bytes.

\begin{itemize}
  \item $c$-\texttt{read\_buffer}
  \item $c$-\texttt{read\_buffer( }$\texttt{new\_value}$ \texttt{)}
\end{itemize}

Bytes read by $c$-\texttt{get\_request}, but not used are placed in the \texttt{read\_buffer}. The next time $c$-\texttt{get\_request} is called it will consume the bytes in this buffer before reading more data from the network connection itself. The read buffer is invalid after $c$-\texttt{get\_request} has failed.

If you handle the reading of the request content yourself you need to empty this buffer before you read more and you need to place unconsumed bytes here. You also need this buffer if you implement services like \texttt{101 Switching Protocols}.

This method always returns the old buffer content and can optionally replace the buffer content if you pass it an argument.

\begin{itemize}
  \item $c$-\texttt{reason}
\end{itemize}

When $c$-\texttt{get\_request} returns \texttt{undef} you can obtain a short string describing why it happened by calling $c$-\texttt{reason}.

\begin{itemize}
  \item $c$-\texttt{proto\_ge( }$\texttt{proto}$ \texttt{)}
\end{itemize}

Return \texttt{TRUE} if the client announced a protocol with version number greater or equal to the given argument. The $\texttt{proto}$ argument can be a string like "HTTP/1.1" or just "1.1".

\begin{itemize}
  \item $c$-\texttt{antique\_client}
\end{itemize}
Return TRUE if the client speaks the HTTP/0.9 protocol. No status code and no headers should be returned to such a client. This should be the same as !c->proto_ge("HTTP/1.0").

=item c->head_request

Return TRUE if the last request was a C<HEAD> request. No content body must be generated for these requests.

=item c->force_last_request

Make sure that c->get_request will not try to read more requests off this connection. If you generate a response that is not self delimiting, then you should signal this fact by calling this method.

This attribute is turned on automatically if the client announces protocol HTTP/1.0 or worse and does not include a "Connection: Keep-Alive" header. It is also turned on automatically when HTTP/1.1 or better clients send the "Connection: close" request header.

=item c->send_status_line

=item c->send_status_line( $code )

=item c->send_status_line( $code, $mess )

=item c->send_status_line( $code, $mess, $proto )

Send the status line back to the client. If $code is omitted 200 is assumed. If $mess is omitted, then a message corresponding to $code is inserted. If $proto is missing the content of the HTTP::Daemon::PROTO variable is used.

=item c->send_crlf

Send the CRLF sequence to the client.

=item c->send_basic_header

=item c->send_basic_header( $code )

=item c->send_basic_header( $code, $mess )

=item c->send_basic_header( $code, $mess, $proto )

Send the status line and the "Date:" and "Server:" headers back to the client. This header is assumed to be continued and does not end
with an empty CRLF line.

See the description of `send_status_line()` for the description of the accepted arguments.

=item $c->send_header( $field, $value )

=item $c->send_header( $field1, $value1, $field2, $value2, ... )

Send one or more header lines.

=item $c->send_response( $res )

Write a C<HTTP::Response> object to the client as a response. We try hard to make sure that the response is self delimiting so that the connection can stay persistent for further request/response exchanges.

The content attribute of the C<HTTP::Response> object can be a normal string or a subroutine reference. If it is a subroutine, then whatever this callback routine returns is written back to the client as the response content. The routine will be called until it return an undefined or empty value. If the client is HTTP/1.1 aware then we will use chunked transfer encoding for the response.

=item $c->send_redirect( $loc )

=item $c->send_redirect( $loc, $code )

=item $c->send_redirect( $loc, $code, $entity_body )

Send a redirect response back to the client. The location ($loc) can be an absolute or relative URL. The $code must be one the redirect status codes, and defaults to "301 Moved Permanently"

=item $c->send_error

=item $c->send_error( $code )

=item $c->send_error( $code, $error_message )

Send an error response back to the client. If the $code is missing a "Bad Request" error is reported. The $error_message is a string that is incorporated in the body of the HTML entity body.

=item $c->send_file_response( $filename )

Send back a response with the specified $filename as content. If the
Copy the file to the client. The file can be a string (which will be interpreted as a filename) or a reference to an C<IO::Handle> or glob.

=back

=head1 SEE ALSO

RFC 2616

L<IO::Socket::INET>, L<IO::Socket>

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NAME
HTTP::Daemon - a simple http server class

SYNOPSIS
use HTTP::Daemon;
use HTTP::Status;

my $d = HTTP::Daemon->new || die;
print "Please contact me at: <URL: " , $d->url , " >\n";
while (my $c = $d->accept) {
    while (my $r = $c->get_request) {
        if ($r->method eq 'GET' and $r->uri->path eq "/xyzzy") {
            # remember, this is *not* recommended practice :-)
        }
    }
}
DESCRIPTION
Instances of the `HTTP::Daemon' class are HTTP/1.1 servers that listen on a socket for incoming requests. The `HTTP::Daemon' is a subclass of `IO::Socket::INET', so you can perform socket operations directly on it too.

The accept() method will return when a connection from a client is available. The returned value will be an `HTTP::Daemon::ClientConn' object which is another `IO::Socket::INET' subclass. Calling the get_request() method on this object will read data from the client and return an `HTTP::Request' object. The ClientConn object also provide methods to send back various responses.

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A server that wants to bind to some specific address on the standard HTTP port will be constructed like this:

```perl
$d = HTTP::Daemon->new(
    LocalAddr => 'www.thisplace.com',
    LocalPort => 80,
);
```

See IO::Socket::INET for a description of other arguments that can be used configure the daemon during construction.
$c = $d->accept
$c = $d->accept($pkg)
($c, $peer_addr) = $d->accept

This method works the same the one provided by the base class, but it returns an `HTTP::Daemon::ClientConn' reference by default. If a package name is provided as argument, then the returned object will be blessed into the given class. It is probably a good idea to make that class a subclass of `HTTP::Daemon::ClientConn'.

The accept method will return `undef' if timeouts have been enabled and no connection is made within the given time. The timeout() method is described in IO::Socket.

In list context both the client object and the peer address will be returned; see the description of the accept method IO::Socket for details.

$d->url

Returns a URL string that can be used to access the server root.

$d->product_tokens

Returns the name that this server will use to identify itself. This is the string that is sent with the `Server' response header. The main reason to have this method is that subclasses can override it if they want to use another product name.

The default is the string "libwww-perl-daemon/#.##" where "#.##" is replaced with the version number of this module.

The `HTTP::Daemon::ClientConn' is a `IO::Socket::INET' subclass. Instances of this class are returned by the accept() method of `HTTP::Daemon'. The following methods are provided:

$c->get_request
$c->get_request($headers_only)

This method reads data from the client and turns it into an `HTTP::Request' object which is returned. It returns `undef' if reading fails. If it fails, then the `HTTP::Daemon::ClientConn' object ($c) should be discarded, and you should not try call this method again on it. The $c->reason method might give you some information about why $c->get_request failed.

The get_request() method will normally not return until the whole request has been received from the client. This might not be what you want if the request is an upload of a large file (and with chunked transfer encoding HTTP can even support infinite request messages - uploading live audio for instance). If you pass a TRUE
value as the $headers_only argument, then get_request() will return immediately after parsing the request headers and you are responsible for reading the rest of the request content. If you are going to call $c->get_request again on the same connection you better read the correct number of bytes.

$c->read_buffer
$c->read_buffer( $new_value )
    Bytes read by $c->get_request, but not used are placed in the *read buffer*. The next time $c->get_request is called it will consume the bytes in this buffer before reading more data from the network connection itself. The read buffer is invalid after $c->get_request has failed.

If you handle the reading of the request content yourself you need to empty this buffer before you read more and you need to place unconsumed bytes here. You also need this buffer if you implement services like *101 Switching Protocols*.

This method always returns the old buffer content and can optionally replace the buffer content if you pass it an argument.

$c->reason
    When $c->get_request returns `undef` you can obtain a short string describing why it happened by calling $c->reason.

$c->proto_ge( $proto )
    Return TRUE if the client announced a protocol with version number greater or equal to the given argument. The $proto argument can be a string like "HTTP/1.1" or just "1.1".

$c->antique_client
    Return TRUE if the client speaks the HTTP/0.9 protocol. No status code and no headers should be returned to such a client. This should be the same as !$c->proto_ge("HTTP/1.0").

$c->head_request
    Return TRUE if the last request was a `HEAD' request. No content body must be generated for these requests.

$c->force_last_request
    Make sure that $c->get_request will not try to read more requests off this connection. If you generate a response that is not self delimiting, then you should signal this fact by calling this method.

This attribute is turned on automatically if the client announces protocol HTTP/1.0 or worse and does not include a "Connection: Keep-Alive" header. It is also turned on automatically when HTTP/1.1
or better clients send the "Connection: close" request header.

$c->send_status_line
$c->send_status_line( $code )
$c->send_status_line( $code, $mess )
$c->send_status_line( $code, $mess, $proto )
Send the status line back to the client. If $code is omitted 200 is assumed. If $mess is omitted, then a message corresponding to $code is inserted. If $proto is missing the content of the $HTTP::Daemon::PROTO variable is used.

$c->send_crlf
Send the CRLF sequence to the client.

$c->send_basic_header
$c->send_basic_header( $code )
$c->send_basic_header( $code, $mess )
$c->send_basic_header( $code, $mess, $proto )
Send the status line and the "Date:" and "Server:" headers back to the client. This header is assumed to be continued and does not end with an empty CRLF line.

See the description of send_status_line() for the description of the accepted arguments.

$c->send_header( $field, $value )
$c->send_header( $field1, $value1, $field2, $value2, ... )
Send one or more header lines.

$c->send_response( $res )
Write a `HTTP::Response' object to the client as a response. We try hard to make sure that the response is self delimiting so that the connection can stay persistent for further request/response exchanges.

The content attribute of the `HTTP::Response' object can be a normal string or a subroutine reference. If it is a subroutine, then whatever this callback routine returns is written back to the client as the response content. The routine will be called until it return an undefined or empty value. If the client is HTTP/1.1 aware then we will use chunked transfer encoding for the response.

$c->send_redirect( $loc )
$c->send_redirect( $loc, $code )
$c->send_redirect( $loc, $code, $entity_body )
Send a redirect response back to the client. The location ($loc) can be an absolute or relative URL. The $code must be one the redirect status codes, and defaults to "301 Moved Permanently"
$c->send_error
$c->send_error( $code )
$c->send_error( $code, $error_message )

Send an error response back to the client. If the $code is missing a "Bad Request" error is reported. The $error_message is a string that is incorporated in the body of the HTML entity body.

$c->send_file_response( $filename )

Send back a response with the specified $filename as content. If the file is a directory we try to generate an HTML index of it.

$c->send_file( $filename )
$c->send_file( $fd )

Copy the file to the client. The file can be a string (which will be interpreted as a filename) or a reference to an `IO::Handle' or glob.

$c->daemon

Return a reference to the corresponding `HTTP::Daemon' object.

SEE ALSO
RFC 2616

IO::Socket::INET, IO::Socket

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Appendix: How to Apply These Terms to Your New Libraries

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1.1492 xz 5.2.2 1.el7

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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yes

--
Alexandr Ciornii, http://chorny.net

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1.1495 jackson-coreutils 1.9

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/StringLineSeparator.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/StringLineEncoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java

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jar/io.netty.handler.codec.serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.string/package-info.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec_CORruptedFrameException.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.ByteToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.serialization/CompatibleObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.ByteToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.MessageToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec/DecoderException.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec/compression/ZlibUtil.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.MessageAggregator.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.marshalling/LimitingByteInput.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.serialization/ClassResolver.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec.marshalling/MarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1.26-final-sources-1-
jar/io.netty.handler.codec/compression/ZlibWrapper.java
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 */

/**
 * Enumeration of supported Base64 dialects.
 */

The internal lookup tables in this class have been derived from...
* Robert Harder's Public Domain Base64 Encoder/Decoder

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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Utility class for ByteBuf that encodes and decodes to and from Base64 notation. The encoding and decoding algorithm in this class has been derived from Robert Harder's Public Domain Base64 Encoder/Decoder.

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1.jar/io/netty/handler/codec/Headers.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1.jar/io/netty/handler/codec/EmptyHeaders.java

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A decoder that splits the received @link ByteBuf@s dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message.

[@link LengthFieldBasedFrameDecoder] has many configuration parameters so that it can decode any message with a length field, which is often seen in proprietary client-server protocols. Here are some example that will give you the basic idea on which option does what.

<h3>2 bytes length field at offset 0, do not strip header</h3>

The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```
<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
```

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

<h3>2 bytes length field at offset 0, strip header</h3>

Because we can get the length of the content by calling @link ByteBuf#readableBytes(), you might want to strip the length field by specifying initialBytesToStrip. In this example, we specified 2, that is same with the length of the length field, to strip the first two bytes.

```
lengthFieldOffset = 0
lengthFieldLength = 2
```
* lengthAdjustment = 0
* \(<b>\text{initialBytesToStrip}?</b> = \<b>2</b>\) (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes)   AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* \(<b>\text{initialBytesToStrip}?</b> = \<b>2</b>\) (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \(<tt>lengthAdjustment</tt>\). Because the length value in this example message
* is always greater than the body length by \(<tt>2</tt>\), we specify \(<tt>-2</tt>\) as
* \(<tt>lengthAdjustment</tt>\) for compensation.
* 
* lengthFieldOffset = 0
* lengthFieldLength = 2
* \(<b>\text{lengthAdjustment}?</b> = \<b>-2</b>\) (= the length of the Length field)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes)   AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
3 bytes length field at the beginning of 5 bytes header, do not strip header

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthFieldLength</tt>` and the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
* +--------+--------+--------+----------------+      +--------+----------------+
* | HDR1    | Length | HDR2   | Actual Content |----->| HDR2   | Actual Content |
* | 0xCA   | 0x0000C | 0xFE   | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
* +--------+--------+--------+----------------+      +--------+----------------+
* </pre>

2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field, the length field
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.

* `<pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* `<b>lengthAdjustment</b>` = `<b>-3</b>` (= the length of HDR1 + LEN, negative)
* `<b>initialBytesToStrip</b>` = `<b>3</b>`
* `</pre>`

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +--------------+--------+----------------------+      +--------------+----------------------+
* |  HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | ”HELLO, WORLD“ |      | 0xFE | ”HELLO, WORLD“ |
* +--------------+--------+----------------------+      +--------------+----------------------+
* `</pre>`

* `@see LengthFieldPrepender`
*/

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vis.c in libroken

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

@verbatim
rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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Richard Outerbridge

DES core in libhcrypto

D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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o Scheduler framework extension to support
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o Daemon framework extension to block SIGCHLD
to only receive it when its unblocked in the
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Jeremy Rumpf, <rumpf.6@osu.edu> :
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
o Added dont_track_primary, nopreempt,
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Kevin Lindsay, <kevinl@netnation.com> :
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1.1510 dns 1.1.26

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1.1512 grub2 2.02~beta2-9ubuntu1.17

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8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13c.bdf 8x13-IL2.bdf 8x13O.bdf
9x15B.bdf 9x15Bc.bdf 9x15.bdf 9x15c.bdf 9x15B-IL2.bdf 9x15-IL2.bdf
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ter-u20b.bdf, ter-u20n.bdf, ter-u24b.bdf, ter-u24n.bdf,
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1.1522 google-api-go-client 0.26.0

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package api

import (  
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "regexp"
"testing"

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\)\* (All rights reserved\)\* (/\*) Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }
        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }
    })
}
1.1523 sed 4.2.2 5.el7

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* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/el/FunctionMapper.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/JspTag.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/JspPage.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/JspWriter.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/TagAttributeInfo.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/IterationTag.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/PageContext.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/JspException.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/VariableResolver.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/BodyTag.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/TagFileInfo.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/FunctionInfo.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/0/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/TagAdapter.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/0/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/SkipPageException.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/0/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/tagext/TagLibraryInfo.java
* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/0/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/el/ELParseException.java

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* /opt/ws_local/PERMITS_SQL/1074054773_1595555055.39/0/jsp-api-2-0-6-1-14-sources-jar/javax/servlet/jsp/resources/jsp_2_0.xsd
1.1526 mdadm 4.1 rc1_2.el7

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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<OL TYPE="a">

<P>
  <LI>The modified work must itself be a software library.

<P>
  <LI>You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

<P>
  <LI>You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

<P>
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</OL>
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<OL TYPE="a">

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<P>
<L1>Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

<P>
<L1>If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

<P>
<L1>Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

</OL>

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<OL TYPE="a">

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<P>

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</OL>

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<PRE>
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1.1530 libxcomposite 0.4.4-1

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1.1531 tcl 8.5.18

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1.1532 cyrus-sasl 2.1.26 23.el7

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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That's all there is to it!

1.1550 aws-sdk-go 1.25.41

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1.1551 apt-xapian-index 0.45ubuntu4

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1.1552 perl-socket 2.010 5.el7

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 */

package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.*;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

/**
 * Store permission related information.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public class PermissionStatus implements Writable {
    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new PermissionStatus(); }
    }

    /**
     * @Override
     */
    @Override
    public void write(DataOutput out) throws IOException {
        // Implementation
    }

    /**
     * @Override
     */
    public void readFields(DataInput in) throws IOException {
        // Implementation
    }
}
```
/** Create an immutable {@link PermissionStatus} object. */
public static PermissionStatus createImmutable(String user, String group, FsPermission permission) {
    return new PermissionStatus(user, group, permission) {
        @Override
        public PermissionStatus applyUMask(FsPermission umask) {
            throw new UnsupportedOperationException();
        } @Override
        public void readFields(DataInput in) throws IOException {
            throw new UnsupportedOperationException();
        }
    };
}

private String username;
private String groupname;
private FsPermission permission;

private PermissionStatus() {} 

/** Constructor */
public PermissionStatus(String user, String group, FsPermission permission) {
    username = user;
    groupname = group;
    this.permission = permission;
}

/** Return user name */
public String getUserName() {return username;}

/** Return group name */
public String getGroupName() {return groupname;}

/** Return permission */
public FsPermission getPermission() {return permission;}

/**
 * Apply umask.
 * @see FsPermission#applyUMask(FsPermission)
 */
public PermissionStatus applyUMask(FsPermission umask) {
    permission = permission.applyUMask(umask);
return this;
}

@Override
public void readFields(DataInput in) throws IOException {
    username = Text.readString(in, Text.DEFAULT_MAX_LEN);
    groupname = Text.readString(in, Text.DEFAULT_MAX_LEN);
    permission = FsPermission.read(in);
}

@Override
public void write(DataOutput out) throws IOException {
    write(out, username, groupname, permission);
}

/**
 * Create and initialize a {@link PermissionStatus} from {@link DataInput}.
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a {@link PermissionStatus} from its base components.
 */
public static void write(DataOutput out,
    String username,
    String groupname,
    FsPermission permission) throws IOException {
    Text.writeString(out, username, Text.DEFAULT_MAX_LEN);
    Text.writeString(out, groupname, Text.DEFAULT_MAX_LEN);
    permission.write(out);
}

@Override
public String toString() {
    return username + ":" + groupname + ":" + permission;
}

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*/
package org.apache.hadoop.fs.permission;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * An exception class for access control related issues.
 * @deprecated Use {@link org.apache.hadoop.security.AccessControlException}
 *             instead.
 */
@Deprecated
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AccessControlException extends IOException {
    //Required by {@link java.io.Serializable}.
    private static final long serialVersionUID = 1L;

    /**
     * Default constructor is needed for unwrapping from
     * { @link org.apache.hadoop.ipc.RemoteException}.
     */
    public AccessControlException() {
        super("Permission denied.");
    }

    /**
     * Constructs an { @link AccessControlException}
     * with the specified detail message.
     * @param s the detail message.
     */
    public AccessControlException(String s) {
        super(s);
    }

    /**
     * Constructs a new exception with the specified cause and a detail
     */
}
* message of <tt>(cause==null ? null : cause.toString())</tt> (which
* typically contains the class and detail message of <tt>cause</tt>).  
* @param  cause the cause (which is saved for later retrieval by the
*        [link #getCause() method).  (A <tt>null</tt> value is
*        permitted, and indicates that the cause is nonexistent or
*        unknown.)
*/
public AccessControlException(Throwable cause) {
    super(cause);
}

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package org.apache.hadoop.fs.permission;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeys;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.WritableFactories;
import org.apache.hadoop.io.WritableFactory;

/**
* A class for file/directory permissions.
*/
@InterfaceAudience.Public
@InterfaceStability.Stable
public class FsPermission implements Writable {
    private static final Log LOG = LogFactory.getLog(FsPermission.class);

    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new FsPermission(); }
    };
    static { // register a ctor
        WritableFactories.setFactory(FsPermission.class, FACTORY);
        WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
    }

    /** Create an immutable { @link FsPermission} object. */
    public static FsPermission createImmutable(short permission) {
        return new ImmutableFsPermission(permission);
    }

    //POSIX permission style
    private FsAction useraction = null;
    private FsAction groupaction = null;
    private FsAction otheraction = null;
    private boolean stickyBit = false;

    private FsPermission() {
    }

    /**
     * Construct by the given { @link FsAction}. 
     * @param u user action
     * @param g group action
     * @param o other action
     */
    public FsPermission(FsAction u, FsAction g, FsAction o) {
        this(u, g, o, false);
    }

    public FsPermission(FsAction u, FsAction g, FsAction o, boolean sb) {
        set(u, g, o, sb);
    }

    /**
     * Construct by the given mode.
     * @param mode
     * @see #toShort()
     */
    public FsPermission(short mode) { fromShort(mode); }

    /**
* Copy constructor
*
* @param other other permission
*/
public FsPermission(FsPermission other) {
    this.useraction = other.useraction;
    this.groupaction = other.groupaction;
    this.otheraction = other.otheraction;
    this.stickyBit = other.stickyBit;
}
/**
* Construct by given mode, either in octal or symbolic format.
* @param mode mode as a string, either in octal or symbolic format
* @throws IllegalArgumentException if <code>mode</code> is invalid
*/
public FsPermission(String mode) {
    this(new UmaskParser(mode).getUMask());
}
/** Return user {@link FsAction}. */
public FsAction getUserAction() {return useraction;}
/** Return group {@link FsAction}. */
public FsAction getGroupAction() {return groupaction;}
/** Return other {@link FsAction}. */
public FsAction getOtherAction() {return otheraction;}
private void set(FsAction u, FsAction g, FsAction o, boolean sb) {
    useraction = u;
    groupaction = g;
    otheraction = o;
    stickyBit = sb;
}
public void fromShort(short n) {
    FsAction[] v = FsAction.values();
    set(v[(n >>> 6) & 7], v[(n >>> 3) & 7], v[n & 7], (((n >>> 9) & 1) == 1));
}
@Override
public void write(DataOutput out) throws IOException {
    out.writeShort(toShort());
}
@Override
public void readFields(DataInput in) throws IOException {
    fromShort(in.readShort());
}

/**
 * Create and initialize a {@link FsPermission} from {@link DataInput}.
 */
public static FsPermission read(DataInput in) throws IOException {
    FsPermission p = new FsPermission();
    p.readFields(in);
    return p;
}

/**
 * Encode the object to a short.
 */
public short toShort() {
    int s = (stickyBit ? 1 << 9 : 0) |
        (useraction.ordinal() << 6) |
        (groupaction.ordinal() << 3) |
        otheraction.ordinal();

    return (short)s;
}

@Override
public boolean equals(Object obj) {
    if (obj instanceof FsPermission) {
        FsPermission that = (FsPermission)obj;
        return this.useraction == that.useraction
            && this.groupaction == that.groupaction
            && this.otheraction == that.otheraction
            && this.stickyBit == that.stickyBit;
    }
    return false;
}

@Override
public int hashCode() {return toShort();}

@Override
public String toString() {
    String str = useraction.SYMBOL + groupaction.SYMBOL + otheraction.SYMBOL;
    if(stickyBit) {
        StringBuilder str2 = new StringBuilder(str);
        str2.replace(str2.length() - 1, str2.length(),
            otheraction.implies(FsAction.EXECUTE) ? "t" : "T");
        str = str2.toString();
    }
    return str;
}
/**
 * Apply a umask to this permission and return a new one.
 *
 * The umask is used by create, mkdir, and other Hadoop filesystem operations.
 * The mode argument for these operations is modified by removing the bits
 * which are set in the umask. Thus, the umask limits the permissions which
 * newly created files and directories get.
 *
 * @param umask  The umask to use
 *
 * @return  The effective permission
 */
public FsPermission applyUMask(FsPermission umask) {
    return new FsPermission(useraction.and(umask.useraction.not()),
                              groupaction.and(umask.groupaction.not()),
                              otheraction.and(umask.otheraction.not()));
}

/** umask property label deprecated key and code in getUMask method
 * to accommodate it may be removed in version .23 */
public static final String DEPRECATED_UMASK_LABEL = "dfs.umask";
public static final String UMASK_LABEL =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_KEY;
public static final int DEFAULT_UMASK =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_DEFAULT;

/**
 * Get the user file creation mask (umask)
 *
 * { @code UMASK_LABEL} config param has umask value that is either symbolic
 * or octal.
 *
 * Symbolic umask is applied relative to file mode creation mask;
 * the permission op characters '+' clears the corresponding bit in the mask,
 * '-' sets bits in the mask.
 *
 * Octal umask, the specified bits are set in the file mode creation mask.
 *
 * { @code DEPRECATED_UMASK_LABEL} config param has umask value set to decimal.
 */
public static FsPermission getUMask(Configuration conf) {
    int umask = DEFAULT_UMASK;
// To ensure backward compatibility first use the deprecated key.
// If the deprecated key is not present then check for the new key
if(conf != null) {
    String confUmask = conf.get(UMASK_LABEL);
    int oldUmask = conf.getInt(DEPRECATED_UMASK_LABEL, Integer.MIN_VALUE);
    try {
        if(confUmask != null) {
            umask = new UmaskParser(confUmask).getUMask();
        }
    } catch(IllegalArgumentException iae) {
        // Provide more explanation for user-facing message
        String type = iae instanceof NumberFormatException ? "decimal" :
                        "octal or symbolic";
        String error = "Unable to parse configuration " + UMASK_LABEL + 
                        " with value " + confUmask + " as " + type + " umask."
                        "
        LOG.warn(error);

        // If oldUmask is not set, then throw the exception
        if (oldUmask == Integer.MIN_VALUE) {
            throw new IllegalArgumentException(error);
        }
    }
}

if(oldUmask != Integer.MIN_VALUE) { // Property was set with old key
    if (umask != oldUmask) {
        LOG.warn(DEPRECATED_UMASK_LABEL + " configuration key is deprecated. " + UMASK_LABEL + 
                        " configuration key is deprecated. " + Convert to " + UMASK_LABEL + 
                        " configuration key is deprecated. " + specifications.");
        // Old and new umask values do not match - Use old umask
        umask = oldUmask;
    }
}

return new FsPermission((short)umask);
}

public boolean getStickyBit() {
    return stickyBit;
}

/** Set the user file creation mask (umask) */
public static void setUMask(Configuration conf, FsPermission umask) {
    conf.set(UMASK_LABEL, String.format("%1$03o", umask.toShort()));
    conf.setInt(DEPRECATED_UMASK_LABEL, umask.toShort());
}
/**
 * Get the default permission for directory and symlink.
 * In previous versions, this default permission was also used to
 * create files, so files created end up with ugo+x permission.
 * See HADOOP-9155 for detail.
 * Two new methods are added to solve this, please use
 * { @link FsPermission#getDirDefault() } for directory, and use
 * { @link FsPermission#getFileDefault() } for file.
 * This method is kept for compatibility.
 */
public static FsPermission getDefault() {
    return new FsPermission((short)00777);
}

/**
 * Get the default permission for directory.
 */
public static FsPermission getDirDefault() {
    return new FsPermission((short)00777);
}

/**
 * Get the default permission for file.
 */
public static FsPermission getFileDefault() {
    return new FsPermission((short)00666);
}

/**
 * Create a FsPermission from a Unix symbolic permission string
 * @param unixSymbolicPermission e.g. "-rw-rw-rw-
 */
public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    } else if (unixSymbolicPermission.length() != 10) {
        throw new IllegalArgumentException("length != 10(unixSymbolicPermission=
                                     + unixSymbolicPermission + ")");
    }

    int n = 0;
    for(int i = 1; i < unixSymbolicPermission.length(); i++) {
        n = n << 1;
        char c = unixSymbolicPermission.charAt(i);
        n += (c == '-' || c == 'T' || c == 'S') ? 0: 1;
    }
}
// Add sticky bit value if set
if (unixSymbolicPermission.charAt(9) == 't' ||
    unixSymbolicPermission.charAt(9) == 'T')
    n += 01000;

return new FsPermission((short)n);
}

private static class ImmutableFsPermission extends FsPermission {
    public ImmutableFsPermission(short permission) {
        super(permission);
    }

    @Override
    public FsPermission applyUMask(FsPermission umask) {
        throw new UnsupportedOperationException();
    }

    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
}

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*/

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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 */

For src/main/native/src/org/apache/hadoop/io/compress/lz4/lz4.c:

/*
 LZ4 - Fast LZ compression algorithm
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*/
/**
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package org.apache.hadoop.fs.permission;

import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import junit.framework.TestCase;
import static org.apache.hadoop.fs.permission.FsAction.*;

public class TestFsPermission extends TestCase {

    public void testFsAction() {
        //implies
        for (FsAction a : FsAction.values()) {
            assertTrue(ALL.implies(a));
        }

        for (FsAction a : FsAction.values()) {
            assertTrue(a == NONE? NONE.implies(a): !NONE.implies(a));
        }

        for (FsAction a : FsAction.values()) {
            assertTrue(a == READ_EXECUTE || a == READ || a == EXECUTE || a == NONE?
                READ_EXECUTE.implies(a): !READ_EXECUTE.implies(a));
        }

        //masks
        assertEquals(EXECUTE, EXECUTE.and(READ_EXECUTE));
        assertEquals(READ, READ.and(READ_EXECUTE));
        assertEquals(NONE, WRITE.and(READ_EXECUTE));
        assertEquals(READ, READ_EXECUTE.and(READ_WRITE));
        assertEquals(NONE, READ_EXECUTE.and(WRITE));
        assertEquals(WRITE_EXECUTE, ALL.and(WRITE_EXECUTE));
    }
}

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*
/**
 * Ensure that when manually specifying permission modes we get
 * the expected values back out for all combinations
 */

public void testConvertingPermissions() {
    for(short s = 0; s < 01777; s++) {
        assertEquals(s, new FsPermission(s).toShort());
    }

    short s = 0;

    for(boolean sb : new boolean [] { false, true }) {
        for(FsAction u : FsAction.values()) {
            for(FsAction g : FsAction.values()) {
                for(FsAction o : FsAction.values()) {
                    FsPermission f = new FsPermission(u, g, o, sb);
                    assertEquals(s, f.toShort());
                    FsPermission f2 = new FsPermission(f);
                    assertEquals(s, f2.toShort());
                    s++;
                }
            }
        }
    }

    public void testStickyBitToString() {
        // Check that every permission has its sticky bit represented correctly
        for(boolean sb : new boolean [] { false, true }) {
            for(FsAction u : FsAction.values()) {
                for(FsAction g : FsAction.values()) {
                    for(FsAction o : FsAction.values()) {
                        FsPermission f = new FsPermission(u, g, o, sb);
                        if(f.getStickyBit() && f.getOtherAction().implies(EXECUTE))
                            assertEquals('t', f.toString().charAt(8));
                        else if(f.getStickyBit() && !f.getOtherAction().implies(EXECUTE))
                            assertEquals('T', f.toString().charAt(8));
                        else if(!f.getStickyBit()  && f.getOtherAction().implies(EXECUTE))
                            assertEquals('x', f.toString().charAt(8));
                        else
                            assertEquals('-', f.toString().charAt(8));
                    }
                }
            }
        }
    }
public void testFsPermission() {
    String symbolic = "-rwxrwxrwx";
    StringBuilder b = new StringBuilder("-123456789");

    for(int i = 0; i < (1<<9); i++) {
        for(int j = 1; j < 10; j++) {
            b.setCharAt(j, '-');
        }

        String binary = Integer.toBinaryString(i);
        int len = binary.length();
        for(int j = 0; j < len; j++) {
            if (binary.charAt(j) == '1') {
                int k = 9 - (len - 1 - j);
                b.setCharAt(k, symbolic.charAt(k));
            }
        }

        assertEquals(i, FsPermission.valueOf(b.toString()).toShort());
    }
}

public void testUMaskParser() throws IOException {
    Configuration conf = new Configuration();

    // Ensure that we get the right octal values back for all legal values
    for(FsAction u : FsAction.values()) {
        for(FsAction g : FsAction.values()) {
            for(FsAction o : FsAction.values()) {
                FsPermission f = new FsPermission(u, g, o);
                String asOctal = String.format("%1$03o", f.toShort());
                conf.set(FsPermission.UMASK_LABEL, asOctal);
                FsPermission fromConf = FsPermission.getUMask(conf);
                assertEquals(f, fromConf);
            }
        }
    }
}

public void testSymbolicUmasks() {
    Configuration conf = new Configuration();

    // Test some symbolic to octal settings
    // Symbolic umask list is generated in linux shell using by the command:
    // umask 0; umask <octal number>; umask -S
    String [][][] symbolic = new String [][] {
       {"a+rw", "111"},
       {"u=rwx,g=rwx,o=rwx", "0"},
    

<table>
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Open Source Used In Tetration 3.5.1 15711
"u=rx,g=rx,o=rx", "221", }
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"u=rx,g=rx,o=wx", "224", }
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"u=rx,g=o=x", "276", }
"u=rx,g=o=", "277", }
"r,g=rwx,o=rwx", "300", }

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Open Source Used In Tetration 3.5.1 15713
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<td>360</td>
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</table>
for(int i = 0; i < symbolic.length; i += 2) {
    conf.set(FsPermission.UMASK_LABEL, symbolic[i][0]);
    short val = Short.valueOf(symbolic[i][1], 8);
    assertEquals(val, FsPermission.getUMask(conf).toShort());
}
}

public void testBadUmasks() {
    Configuration conf = new Configuration();

    for(String b : new String [] {"1777", "22", "99", "foo", ""}) {
        conf.set(FsPermission.UMASK_LABEL, b);
        try {
            FsPermission.getUMask(conf);
            fail("Shouldn't have been able to parse bad umask");
        } catch (InvalidPermissionException e) {
            // Expected exception
        }
    }
}
} catch(InvalidArgumentException iae) {
    assertTrue("Exception should specify parsing error and invalid umask: ",
        iae.getMessage(), isCorrectExceptionMessage(iae.getMessage(), b));
}

private boolean isCorrectExceptionMessage(String msg, String umask) {
    return msg.contains("Unable to parse") &&
        msg.contains(umask) &&
        msg.contains("octal or symbolic");
}

// Ensure that when the deprecated decimal umask key is used, it is correctly
// parsed as such and converted correctly to an FsPermission value
public void testDeprecatedUmask() {
    Configuration conf = new Configuration();
    conf.set(FsPermission.DEPRECATED_UMASK_LABEL, "302"); // 302 = 0456
    FsPermission umask = FsPermission.getUMask(conf);

    assertEquals(0456, umask.toShort());
}

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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import static org.junit.Assert.fail;
import java.io.IOException;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import static org.junit.Assert.fail;
import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FSDataOutputStream;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hdfs.DFSUtil;
import org.apache.hadoop.hdfs.DistributedFileSystem;
import org.apache.hadoop.hdfs.HdfsConfiguration;
import org.apache.hadoop.hdfs.MiniDFSCluster;
import org.apache.hadoop.hadoop.security.AccessControlException;
import org.apache.hadoop.hadoop.security.UserGroupInformation;
import org.junit.Test;

public class TestStickyBit {

    static UserGroupInformation user1 = 
        UserGroupInformation.createUserForTesting("theDoctor", new String[] {"tardis");
    static UserGroupInformation user2 = 
        UserGroupInformation.createUserForTesting("rose", new String[] {"powellestates");

    /**
     * Ensure that even if a file is in a directory with the sticky bit on,
     * another user can write to that file (assuming correct permissions).
     *
     */
    private void confirmCanAppend(Configuration conf, FileSystem hdfs,
        Path baseDir) throws IOException, InterruptedException {
        Path p = new Path(baseDir, "tmp");
        hdfs.mkdirs(p);
        hdfs.setPermission(p, new FsPermission((short) 01777));

        // Create a tmp directory with wide-open permissions and sticky bit
        Path p = new Path(baseDir, "tmp");
        hdfs.mkdirs(p);
        hdfs.setPermission(p, new FsPermission((short) 01777));

        // Write a file to the new tmp directory as a regular user
        hdfs = DFSUtil.getFileSystemAs(user1, conf);
        Path file = new Path(p, "foo");
        writeFile(hdfs, file);
        hdfs.setPermission(file, new FsPermission((short) 0777));

        // Log onto cluster as another user and attempt to append to file
        hdfs = DFSUtil.getFileSystemAs(user2, conf);
        Path file2 = new Path(p, "foo");
        FSDataOutputStream h = hdfs.append(file2);
        h.write("Some more data", getBytes());
        h.close();
    }

    /**
     */
private void confirmDeletingFiles(Configuration conf, FileSystem hdfs, Path baseDir) throws IOException, InterruptedException {
    Path p = new Path(baseDir, "contemporary");
    hdfs.mkdirs(p);
    hdfs.setPermission(p, new FsPermission((short) 01777));

    // Write a file to the new temp directory as a regular user
    hdfs = DFSTestUtil.getFileSystemAs(user1, conf);
    Path file = new Path(p, "foo");
    writeFile(hdfs, file);

    // Make sure the correct user is the owner
    assertEquals(user1.getShortUserName(), hdfs.getFileStatus(file).getOwner());

    // Log onto cluster as another user and attempt to delete the file
    FileSystem hdfs2 = DFSTestUtil.getFileSystemAs(user2, conf);
    try {
        hdfs2.delete(file, false);
        fail("Shouldn't be able to delete someone else's file with SB on");
    } catch (IOException ioe) {
        assertTrue(ioe instanceof AccessControlException);
        assertTrue(ioe.getMessage().contains("sticky bit"));
    }
}

private void confirmStickyBitDoesntPropagate(FileSystem hdfs, Path baseDir) throws IOException {
    Path p = new Path(baseDir, "scissorsisters");

    // Turn on its sticky bit
    hdfs.mkdirs(p, new FsPermission((short) 01666));

    // Create a subdirectory within it
    Path p2 = new Path(p, "bar");
    hdfs.mkdirs(p2);

    // Ensure new directory doesn't have its sticky bit on
    assertFalse(hdfs.getFileStatus(p2).getPermission().getStickyBit());
}
private void confirmSettingAndGetting(FileSystem hdfs, Path baseDir)
    throws IOException {
    Path p1 = new Path(baseDir, "rogue traders");

    hdfs.mkdirs(p1);

    // Initially sticky bit should not be set
    assertFalse(hdfs.getFileStatus(p1).getPermission().getStickyBit());

    // Same permission, but with sticky bit on
    short withSB;
    withSB = (short) (hdfs.getFileStatus(p1).getPermission().toShort() | 01000);
    assertTrue((new FsPermission(withSB)).getStickyBit());

    hdfs.setPermission(p1, new FsPermission(withSB));
    assertTrue(hdfs.getFileStatus(p1).getPermission().getStickyBit());

    // Write a file to the fs, try to set its sticky bit
    Path f = new Path(baseDir, "somefile");
    writeFile(hdfs, f);
    assertFalse(hdfs.getFileStatus(f).getPermission().getStickyBit());
    withSB = (short) (hdfs.getFileStatus(f).getPermission().toShort() | 01000);

    hdfs.setPermission(f, new FsPermission(withSB));
    assertTrue(hdfs.getFileStatus(f).getPermission().getStickyBit());
}

@Test
public void testGeneralSBBehavior() throws IOException, InterruptedException {
    MiniDFSCluster cluster = null;
    try {
        Configuration conf = new HdfsConfiguration();
        conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
        cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).build();
        FileSystem hdfs = cluster.getFileSystem();

        assertTrue(hdfs instanceof DistributedFileSystem);

        Path baseDir = new Path("/mcgann");
        hdfs.mkdirs(baseDir);

        // Other tests...
    } finally {
        cluster.shutdown();
    }
}
confirmCanAppend(conf, hdfs, baseDir);

baseDir = new Path("/eccleston");
hdfs.mkdirs(baseDir);
confirmSettingAndGetting(hdfs, baseDir);

baseDir = new Path("/tennant");
hdfs.mkdirs(baseDir);
confirmDeletingFiles(conf, hdfs, baseDir);

baseDir = new Path("/smith");
hdfs.mkdirs(baseDir);
confirmStickyBitDoesntPropagate(hdfs, baseDir);

} finally {
    if (cluster != null)
        cluster.shutdown();
}

/**
 * Test that one user can't rename/move another user's file when the sticky
 * bit is set.
 */
@Test
public void testMovingFiles() throws IOException, InterruptedException {
    MiniDFSCluster cluster = null;

    try {
        // Set up cluster for testing
        Configuration conf = new HdfsConfiguration();
        conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
        cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).build();
        FileSystem hdfs = cluster.getFileSystem();
        assertTrue(hdfs instanceof DistributedFileSystem);

        // Create a tmp directory with wide-open permissions and sticky bit
        Path tmpPath = new Path("/tmp");
        Path tmpPath2 = new Path("/tmp2");
        hdfs.mkdirs(tmpPath);
        hdfs.mkdirs(tmpPath2);
        hdfs.setPermission(tmpPath, new FsPermission((short) 01777));
        hdfs.setPermission(tmpPath2, new FsPermission((short) 01777));

        // Write a file to the new tmp directory as a regular user
        Path file = new Path(tmpPath, "foo");

        ...
```java
FileSystem hdfs2 = DFSTestUtil.getFileSystemAs(user1, conf);

writeFile(hdfs2, file);

// Log onto cluster as another user and attempt to move the file
FileSystem hdfs3 = DFSTestUtil.getFileSystemAs(user2, conf);

try {
    hdfs3.rename(file, new Path(tmpPath2, "renamed"));
    fail("Shouldn't be able to rename someone else's file with SB on");
} catch (IOException ioe) {
    assertTrue(ioe instanceof AccessControlException);
    assertTrue(ioe.getMessage().contains("sticky bit");
}

} finally {
    if (cluster != null)
        cluster.shutdown();
}

/**
 * Ensure that when we set a sticky bit and shut down the file system, we get
 * the sticky bit back on re-start, and that no extra sticky bits appear after
 * re-start.
 */
@Test
public void testStickyBitPersistence() throws IOException {
    MiniDFSCluster cluster = null;
    try {
        Configuration conf = new HdfsConfiguration();
        conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
        cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).build();
        FileSystem hdfs = cluster.getFileSystem();

       assertTrue(hdfs instanceof DistributedFileSystem);

        // A tale of three directories...
        Path sbSet = new Path("/Housemartins");
        Path sbNotSpecified = new Path("/INXS");
        Path sbSetOff = new Path("/Easyworld");

        for (Path p : new Path[] { sbSet, sbNotSpecified, sbSetOff })
            hdfs.mkdirs(p);

        // Two directories had there sticky bits set explicitly...
        hdfs.setPermission(sbSet, new FsPermission((short) 01777));
        hdfs.setPermission(sbSetOff, new FsPermission((short) 00777));
    }
    finally {
        if (cluster != null)
            cluster.shutdown();
    }
}
```
cluster.shutdown();

// Start file system up again
hdfs = cluster.getFileSystem();

assertTrue(hdfs.exists(sbSet));
assertTrue(hdfs.getFileStatus(sbSet).getPermission().getStickyBit());

assertTrue(hdfs.exists(sbNotSpecified));
assertFalse(hdfs.getFileStatus(sbNotSpecified).getPermission().getStickyBit());

assertTrue(hdfs.exists(sbSetOff));
assertFalse(hdfs.getFileStatus(sbSetOff).getPermission().getStickyBit());

} finally {
    if (cluster != null)
        cluster.shutdown();
}

/** *
 * Write a quick file to the specified file system at specified path
 */
static private void writeFile(FileSystem hdfs, Path p) throws IOException {
    FSDataOutputStream o = hdfs.create(p);
    o.write("some file contents").getBytes());
    o.close();
}

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 */

package org.apache.hadoop.fs.permission;

import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Parse umask value provided as a string, either in octal or symbolic
 * format and return it as a short value. Umask values are slightly
 * different from standard modes as they cannot specify sticky bit
 * or X.
 *
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
class UmaskParser extends PermissionParser {
    private static Pattern chmodOctalPattern =
        Pattern.compile("^[\s]*\[\+]?([0-7]{3})\s*$"); // no leading 1 for sticky bit
    private static Pattern umaskSymbolicPattern =
        Pattern.compile("\G\s*(\[ugoa\]*)([\+-]+)([rwx]*)([,\s\]*\s*)\s*");
    final short umaskMode;

    public UmaskParser(String modeStr) throws IllegalArgumentException {
        super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
        umaskMode = (short)combineModes(0, false);
    }

    /**
     * To be used for file/directory creation only. Symbolic umask is applied
     * relative to file mode creation mask; the permission op characters '+'
     * results in clearing the corresponding bit in the mask, '-' results in bits
     * for indicated permission to be set in the mask.
     *
     * For octal umask, the specified bits are set in the file mode creation mask.
     *
     * @return umask
     */
    public short getUMask() {
        if (symbolic) {
            // Return the complement of octal equivalent of umask that was computed
            return (short) (~umaskMode & 0777);
        }
        return umaskMode;
    }
}

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 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * File system actions, e.g. read, write, etc.
 */
@InterfaceAudience.LimitedPrivate({'HDFS'})
@InterfaceStability.Unstable
public enum FsAction {
    // POSIX style
    NONE("---"),
    EXECUTE("--x"),
    WRITE("-w-"),
    WRITE_EXECUTE("-wx"),
    READ("r--"),
    READ_EXECUTE("r-x"),
    READ_WRITE("rw-"),
    ALL("rwx");

    /** Retain reference to value array. */
    private final static FsAction[] vals = values();

    /** Symbolic representation */
    public final String SYMBOL;

    private FsAction(String s) {
        SYMBOL = s;
    }

    /**
     * Return true if this action implies that action.
     * @param that
     */
    public boolean implies(FsAction that) {
        if (that != null) {
            return (ordinal() & that.ordinal()) == that.ordinal();
        }
        return false;
    }

    /** AND operation. */
    public FsAction and(FsAction that) {
        return vals[ordinal() & that.ordinal()];
    }

    /** OR operation. */
}
public FsAction or(FsAction that) {
return vals[ordinal() | that.ordinal()];
}
/** NOT operation. */
public FsAction not() {
return vals[7 - ordinal()];
}
}
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package org.apache.hadoop.fs.permission;
import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.FileStatus;
/**
* Parse a permission mode passed in from a chmod command and apply that
* mode against an existing file.
*/
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class ChmodParser extends PermissionParser {
private static Pattern chmodOctalPattern =
Pattern.compile("^\\s*[+]?([01]?)([0-7]{3})\\s*$");
private static Pattern chmodNormalPattern =
Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwxXt]+)([,\\s]*)\\s*");
public ChmodParser(String modeStr) throws IllegalArgumentException {
super(modeStr, chmodNormalPattern, chmodOctalPattern);
}

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/**
 * Apply permission against specified file and determine what the
 * new mode would be
 * @param file File against which to apply mode
 * @return File's new mode if applied.
 */
public short applyNewPermission(FileStatus file) {
    FsPermission perms = file.getPermission();
    int existing = perms.toShort();
    boolean exeOk = file.isDirectory() || (existing & 0111) != 0;

    return (short)combineModes(existing, exeOk);
}

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 */
package org.apache.hadoop.fs.permission;

import java.util.regex.Matcher;
import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Base class for parsing either chmod permissions or umask permissions.
 * Includes common code needed by either operation as implemented in
 * UmaskParser and ChmodParser classes.
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
class PermissionParser {
protected boolean symbolic = false;
protected short userMode;
protected short groupMode;
protected short othersMode;
protected short stickyMode;
protected char userType = '+';
protected char groupType = '+';
protected char othersType = '+';
protected char stickyBitType = '+';

/**
 * Begin parsing permission stored in modeStr
 *
 * @param modeStr Permission mode, either octal or symbolic
 * @param symbolic Use-case specific symbolic pattern to match against
 * @throws IllegalArgumentException if unable to parse modeStr
 */
public PermissionParser(String modeStr, Pattern symbolic, Pattern octal)
        throws IllegalArgumentException {
    Matcher matcher = null;

    if ((matcher = symbolic.matcher(modeStr)).find()) {
        applyNormalPattern(modeStr, matcher);
    } else if ((matcher = octal.matcher(modeStr)).matches()) {
        applyOctalPattern(modeStr, matcher);
    } else {
        throw new IllegalArgumentException(modeStr);
    }
}

private void applyNormalPattern(String modeStr, Matcher matcher) {
    // Are there multiple permissions stored in one chmod?
    boolean commaSeperated = false;

    for (int i = 0; i < 1 || matcher.end() < modeStr.length(); i++) {
        if (i > 0 && (!commaSeperated || !matcher.find())) {
            throw new IllegalArgumentException(modeStr);
        }

        /*
        * groups : 1 : [ugoa]* 2 : [+-=] 3 : [rwxXt]+ 4 : [.\s]*
        */
        String str = matcher.group(2);
        char type = str.charAt(str.length() - 1);

        boolean user, group, others, stickyBit;
        user = group = others = stickyBit = false;

        boolean user, group, others, stickyBit;
        user = group = others = stickyBit = false;
for (char c : matcher.group(1).toCharArray()) {
    switch (c) {
    case 'u':
        user = true;
        break;
    case 'g':
        group = true;
        break;
    case 'o':
        others = true;
        break;
    case 'a':
        break;
    default:
        throw new RuntimeException("Unexpected");
    }
}

if (!(user || group || others)) { // same as specifying 'a'
    user = group = others = true;
}

short mode = 0;

for (char c : matcher.group(3).toCharArray()) {
    switch (c) {
    case 'r':
        mode |= 4;
        break;
    case 'w':
        mode |= 2;
        break;
    case 'x':
        mode |= 1;
        break;
    case 'X':
        mode |= 8;
        break;
    case 't':
        stickyBit = true;
        break;
    default:
        throw new RuntimeException("Unexpected");
    }
}

if (user) {
userMode = mode;
userType = type;
}

if (group) {
groupMode = mode;
groupType = type;
}

if (others) {
othersMode = mode;
othersType = type;

stickyMode = (short) (stickyBit ? 1 : 0);
stickyBitType = type;
}

commaSeperated = matcher.group(4).contains(",");
} symbolic = true;

private void applyOctalPattern(String modeStr, Matcher matcher) {
userType = groupType = othersType = '=';

// Check if sticky bit is specified
String sb = matcher.group(1);
if (!sb.isEmpty()) {
stickyMode = Short.valueOf(sb.substring(0, 1));
stickyBitType = '=';
}

String str = matcher.group(2);
userMode = Short.valueOf(str.substring(0, 1));
groupMode = Short.valueOf(str.substring(1, 2));
othersMode = Short.valueOf(str.substring(2, 3));
}

protected int combineModes(int existing, boolean exeOk) {
return combineModeSegments(stickyBitType, stickyMode,
(existing>>>9), false) << 9 |
combineModeSegments(userType, userMode,
(existing>>>6)&7, exeOk) << 6 |
combineModeSegments(groupType, groupMode,
(existing>>>3)&7, exeOk) << 3 |
combineModeSegments(othersType, othersMode, existing&7, exeOk);
}
protected int combineModeSegments(char type, int mode,  
        int existing, boolean exeOk) {
    boolean capX = false;

    if (((mode&8) != 0) { // convert X to x;
        capX = true;
        mode &= ~8;
        mode |= 1;
    }

    switch (type) {
        case '+': mode = mode | existing; break;
        case '-': mode = (~mode) & existing; break;
        case '=': break;
        default : throw new RuntimeException("Unexpected");
    }

    // if X is specified add 'x' only if exeOk or x was already set.
    if (capX && !exeOk && (mode&1) != 0 && (existing&1) == 0) {
        mode &= ~1; // remove x
    }

    return mode;
}

1.1554 snappy 1.1.0 1ubuntu1
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1.1555 node-which 1.0.5-2

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smarten) was
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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.1563 libxdmcp 1.1.1-1
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1.1564 gstreamer 1.14.4

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1.1565 man-db 2.6.7.1-1ubuntu1

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OVERVIEW

The HTML-Parser distribution is a collection of modules that parse
and extract information from HTML documents. The modules present in
this collection are:
HTML::Parser - The parser base class. It receives arbitrary sized chunks of the HTML text, recognizes markup elements, and separates them from the plain text. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

HTML::Entities - Provides functions to encode and decode text with embedded HTML &lt;entities&gt;.

HTML::HeadParser - A lightweight HTML::Parser subclass that extracts information from the &lt;HEAD&gt; section of an HTML document.

HTML::LinkExtor - An HTML::Parser subclass that extracts links from an HTML document.

HTML::PullParser - An alternative interface to the basic parser that does not require event driven programming.

HTML::TokeParser - An HTML::PullParser subclass with fixed token setup and methods for extracting text. Many simple parsing needs are probably best attacked with this module.

In addition take a look at the HTML-Tree package that build on HTML::Parser to create and extract information from HTML syntax trees (similar to HTML DOM).

PREREQUISITES

In order to install and use this package you will need Perl version 5.8 or better. The HTML::Tagset module should be installed.

If you intend to use the HTML::HeadParser you probably want to install libwww-perl too.

INSTALLATION

Just follow the usual procedure:

perl Makefile.PL
make
make test
make install
Bug reports and issues for discussion about these modules can be sent to the <libwww@perl.org> mailing list.

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---
abstract: 'HTML parser class'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: 0
  Test::More: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: HTML-Parser
no_index:
directory:
  - t
  - inc
recommends:
  HTTP::Headers: 0
requires:
  HTML::Tagset: 3
  XSLoader: 0
  perl: 5.008
resources:
  repository: http://github.com/gisle/html-parser
  x_MailingList: mailto:libwww@perl.org
version: 3.71

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=head1 EXAMPLE

This is an example showing how you can extract links from a document received using LWP:

use LWP::UserAgent;
use HTML::LinkExtor;
use URI::URL;

$url = "http://www.perl.org/";  # for instance
$ua = LWP::UserAgent->new;

# Set up a callback that collect image links
my @imgs = ();
sub callback {
my($tag, %attr) = @_;
return if $tag ne 'img'; # we only look closer at <img ...>
push(@imgs, values %attr);
}
# Make the parser. Unfortunately, we don't know the base yet
# (it might be different from $url)
$p = HTML::LinkExtor->new(\&callback);
# Request document and parse it as it arrives
$res = $ua->request(HTTP::Request->new(GET => $url),
sub {$p->parse($_[0])});
# Expand all image URLs to absolute ones
my $base = $res->base;
@imgs = map { $_ = url($_, $base)->abs; } @imgs;
# Print them out
print join("\n", @imgs), "\n";
=head1 SEE ALSO
L<HTML::Parser>, L<HTML::Tagset>, L<LWP>, L<URI::URL>
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=head1 EXAMPLE
$h = HTTP::Headers->new;
$p = HTML::HeadParser->new($h);
$p->parse(<<EOT);
<title>Stupid example</title>

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Normal text starts here.
EOT
undef $p;
print $h->title;  # should print "Stupid example"

=head1 SEE ALSO

L<HTML::Parser>, L<HTTP::Headers>

The C<HTTP::Headers> class is distributed as part of the
I<libwww-perl> package. If you don't have that distribution installed
you need to provide the $header argument to the C<HTML::HeadParser>
constructor with your own object that implements the documented
protocol.

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=encoding utf8

=head1 NAME

HTML::Entities - Encode or decode strings with HTML entities

=head1 SYNOPSIS

use HTML::Entities;

$a = "Våre norske tegn b&oslash;r &#230res";
decode_entities($a);
encode_entities($a, "200-377");

For example, this:

$input = "vis-à-vis Beyoncé's naïve\n\npapier-mâché résumé";
print encode_entities($input), "\n"

Prints this out:

vis-\&agrave;: vis Beyonc\&eacute;\'s na\&iuml;ve
papier-m\&acirc;ch\&eacute; : r\&eacute;sum\&eacute;

=head1 DESCRIPTION

This module deals with encoding and decoding of strings with HTML character entities. The module provides the following functions:

=item decode_entities( $string, ... )

This routine replaces HTML entities found in the $string with the corresponding Unicode character. Unrecognized entities are left alone.

If multiple strings are provided as argument they are each decoded separately and the same number of strings are returned.

If called in void context the arguments are decoded in-place.

This routine is exported by default.

=item _decode_entities( $string, %entity2char )

=item _decode_entities( $string, %entity2char, $expand_prefix )

This will in-place replace HTML entities in $string. The %entity2char hash must be provided. Named entities not found in the %entity2char hash are left alone. Numeric entities are expanded unless their value overflow.

The keys in %entity2char are the entity names to be expanded and their values are what they should expand into. The values do not have to be single character strings. If a key has ";", as suffix, then occurrences in $string are only expanded if properly terminated with ";". Entities without ";" will be expanded regardless of how they are terminated for compatibility with how common browsers treat entities in the Latin-1 range.

If $expand_prefix is TRUE then entities without trailing ";" in %entity2char will even be expanded as a prefix of a longer unrecognized name. The longest matching name in %entity2char will be used. This is mainly present for compatibility with an MSIE misfeature.
$string = "foo&nbspbar";
_string_decode_entities($string, { nb => "@", nbsp => "\xA0" }, 1);
print $string; # will print "foo bar"

This routine is exported by default.

=item encode_entities( $string )

=item encode_entities( $string, $unsafe_chars )

This routine replaces unsafe characters in $string with their entity representation. A second argument can be given to specify which characters to consider unsafe. The unsafe characters is specified using the regular expression character class syntax (what you find within brackets in regular expressions).

The default set of characters to encode are control chars, high-bit chars, and the C<< < >>, C<< & >>, C<< > >>, C<< ' >> and C<< " >> characters. But this, for example, would encode I<just> the C<< < >>, C<< & >>, C<< > >>, and C<< " >> characters:

$encoded = encode_entities($input, '<>&"');

and this would only encode non-plain ascii:

$encoded = encode_entities($input, '^\n\x20-\x25\x27-\x7e');

This routine is exported by default.

=item encode_entities_numeric( $string )

=item encode_entities_numeric( $string, $unsafe_chars )

This routine works just like encode_entities, except that the replacement entities are always C<&#xI<hexnum;>; and never C<&I<entname;>;. For example, C<encode_entities("r\xF4le")> returns "r&ocirc;le", but C<encode_entities_numeric("r\xF4le")> returns "r&#xF4;le".

This routine is I<not> exported by default. But you can always export it with C<use HTML::Entities qw(encode_entities_numeric)> or even C<use HTML::Entities qw(DEFAULT encode_entities_numeric)>.

=back

All these routines modify the string passed as the first argument, if called in a void context. In scalar and array contexts, the encoded or decoded string is returned (without changing the input string).
If you prefer not to import these routines into your namespace, you can call them as:

```perl
use HTML::Entities ();
$decoded = HTML::Entities::decode($a);
$encoded = HTML::Entities::encode($a);
$encoded = HTML::Entities::encode_numeric($a);
```

The module can also export the %char2entity and the %entity2char hashes, which contain the mapping from all characters to the corresponding entities (and vice versa, respectively).

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=head1 NAME

HTML::Filter - Filter HTML text through the parser

=head1 NOTE

B<This module is deprecated.> The C<HTML::Parser> now provides the functionally of C<HTML::Filter> much more efficiently with the the
=head1 SYNOPSIS

require HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");

=head1 DESCRIPTION

C<HTML::Filter> is an HTML parser that by default prints the original text of each HTML element (a slow version of cat(1) basically). The callback methods may be overridden to modify the filtering for some HTML elements and you can override output() method which is called to print the HTML text.

C<HTML::Filter> is a subclass of C<HTML::Parser>. This means that the document should be given to the parser by calling the $p->parse() or $p->parse_file() methods.

=head1 EXAMPLES

The first example is a filter that will remove all comments from an HTML file. This is achieved by simply overriding the comment method to do nothing.

package CommentStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub comment { }  # ignore comments

The second example shows a filter that will remove any E<lt>TABLE>s found in the HTML file. We specialize the start() and end() methods to count table tags and then make output not happen when inside a table.

package TableStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub start
{
  my $self = shift;
  $self->{table_seen}++ if $_[0] eq "table";
  $self->SUPER::start(@_);
}

sub end
{
  my $self = shift;
}
$self->SUPER::end(@_);
$self->{table_seen}-- if $_[0] eq "table";
}

sub output
{
  my $self = shift;
  unless ($self->{table_seen}) {
    $self->SUPER::output(@_);
  }
}

If you want to collect the parsed text internally you might want to do something like this:

package FilterIntoString;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub output { push(@{$_[0]->{fhtml}}, $_[1]) }

=head1 SEE ALSO
L<HTML::Parser>

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=head1 NAME
HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNOPSIS
use HTML::PullParser;

$p = HTML::PullParser->new(file => "index.html",}
start => 'event, tagname, @attr',
end   => 'event, tagname',
ignore_elements => [qw(script style)],
) || die "Can't open: $!";
while (my $token = $p->get_token) {
  #...do something with $token
}

=head1 DESCRIPTION

The HTML::PullParser is an alternative interface to the HTML::Parser class. It basically turns the HTML::Parser inside out. You associate a file (or any IO::Handle object or string) with the parser at construction time and then repeatedly call $parser->get_token to obtain the tags and text found in the parsed document.

The following methods are provided:

=over 4
=item $p = HTML::PullParser->new( file => $file, %options )
=item $p = HTML::PullParser->new( doc => \$doc, %options )

A C<HTML::PullParser> can be made to parse from either a file or a literal document based on whether the C<file> or C<doc> option is passed to the parser's constructor.

The C<file> passed in can either be a file name or a file handle object. If a file name is passed, and it can't be opened for reading, then the constructor will return an undefined value and $! will tell you why it failed. Otherwise the argument is taken to be some object that the C<HTML::PullParser> can read() from when it needs more data. The stream will be read() until EOF, but not closed.

A C<doc> can be passed plain or as a reference to a scalar. If a reference is passed then the value of this scalar should not be changed before all tokens have been extracted.

Next the information to be returned for the different token types must be set up. This is done by simply associating an argspec (as defined in L<HTML::Parser>) with the events you have an interest in. For instance, if you want C<start> tokens to be reported as the string C<S> followed by the tagname and the attributes you might pass an C<start>-option like this:

    $p = HTML::PullParser->new(
        doc => $document_to_parse,
At last other C<HTML::Parser> options, like C<ignore_tags>, and C<unbroken_text>, can be passed in. Note that you should not use the I<event>_h options to set up parser handlers. That would confuse the inner logic of C<HTML::PullParser>.

=item $token = $p->get_token

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The content of this array match the argspec set up during C<HTML::PullParser> construction.

=item $p->unget_token( @tokens )

If you find out you have read too many tokens you can push them back, so that they are returned again the next time $p->get_token is called.

=back

=head1 EXAMPLES

The 'eg/hform' script shows how we might parse the form section of HTML::Documents using HTML::PullParser.

=head1 SEE ALSO

L<HTML::Parser>, L<HTML::TokeParser>

=head1 COPYRIGHT

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=cut

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HTML::TokeParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

```perl
require HTML::TokeParser;
$p = HTML::TokeParser->new("index.html") ||
   die "Can't open: $!";
$p->empty_element_tags(1);  # configure its behaviour

while (my $token = $p->get_token) {
   #...
}
```

=head1 DESCRIPTION

The C<HTML::TokeParser> is an alternative interface to the
C<HTML::Parser> class. It is an C<HTML::PullParser> subclass with a
predeclared set of token types. If you wish the tokens to be reported
differently you probably want to use the C<HTML::PullParser> directly.

The following methods are available:

=over 4

=item $p = HTML::TokeParser->new( $filename, %opt );

=item $p = HTML::TokeParser->new( $filehandle, %opt );

=item $p = HTML::TokeParser->new( \$document, %opt );

=under

The object constructor argument is either a file name, a file handle
object, or the complete document to be parsed. Extra options can be
provided as key/value pairs and are processed as documented by the base
classes.

If the argument is a plain scalar, then it is taken as the name of a
file to be opened and parsed. If the file can't be opened for
reading, then the constructor will return C<undef> and $! will tell
you why it failed.

If the argument is a reference to a plain scalar, then this scalar is
taken to be the literal document to parse. The value of this
scalar should not be changed before all tokens have been extracted.

Otherwise the argument is taken to be some object that the
C<HTML::TokeParser> can read() from when it needs more data. Typically
it will be a filehandle of some kind. The stream will be read() until
EOF, but not closed.

A newly constructed `HTML::TokeParser` differ from its base classes by having the `unbroken_text` attribute enabled by default. See `HTML::Parser` for a description of this and other attributes that influence how the document is parsed. It is often a good idea to enable `empty_element_tags` behaviour.

Note that the parsing result will likely not be valid if raw undecoded UTF-8 is used as a source. When parsing UTF-8 encoded files turn on UTF-8 decoding:

```perl
open(my $fh, "<:utf8", "index.html") || die "Can't open 'index.html': $!";
my $p = HTML::TokeParser->new( $fh );
# ...
```

If a `$filename` is passed to the constructor the file will be opened in raw mode and the parsing result will only be valid if its content is Latin-1 or pure ASCII.

If parsing from an UTF-8 encoded string buffer decode it first:

```perl
utf8::decode($document);
my $p = HTML::TokeParser->new( $document );
# ...
```

=item $p->get_token

This method will return the next `<token>` found in the HTML document, or `undef` at the end of the document. The token is returned as an array reference. The first element of the array will be a string denoting the type of this token: "S" for start tag, "E" for end tag, "T" for text, "C" for comment, "D" for declaration, and "PI" for process instructions. The rest of the token array depend on the type like this:

- `["S", $tag, $attr, $attrseq, $text]`
- `["E", $tag, $text]`
- `["T", $text, $is_data]`
- `["C", $text]`
- `["D", $text]`
- `["PI", $token0, $text]`

where `$attr` is a hash reference, `$attrseq` is an array reference and the rest are plain scalars. The `HTML::Parser/Argspec` explains the details.

=item $p->unget_token( @tokens )
If you find you have read too many tokens you can push them back, so that they are returned the next time $p->get_token is called.

=item $p->get_tag

=item $p->get_tag( @tags )

This method returns the next start or end tag (skipping any other tokens), or C<undef> if there are no more tags in the document. If one or more arguments are given, then we skip tokens until one of the specified tag types is found. For example:

$p->get_tag("font", "/font");

will find the next start or end tag for a font-element.

The tag information is returned as an array reference in the same form as for $p->get_token above, but the type code (first element) is missing. A start tag will be returned like this:

[$tag, $attr, $attrseq, $text]

The tagname of end tags are prefixed with "/", i.e. end tag is returned like this:

["/Tag", $text]

=item $p->get_text

=item $p->get_text( @endtags )

This method returns all text found at the current position. It will return a zero length string if the next token is not text. Any entities will be converted to their corresponding character.

If one or more arguments are given, then we return all text occurring before the first of the specified tags found. For example:

$p->get_text("p", "br");

will return the text up to either a paragraph or linebreak element.

The text might span tags that should be I<textified>. This is controlled by the $p->{textify} attribute, which is a hash that defines how certain tags can be treated as text. If the name of a start tag matches a key in this hash then this tag is converted to text. The hash value is used to specify which tag attribute to obtain
the text from. If this tag attribute is missing, then the upper case name of the tag enclosed in brackets is returned, e.g. "[IMG]". The hash value can also be a subroutine reference. In this case the routine is called with the start tag token content as its argument and the return value is treated as the text.

The default $p->{textify} value is:

{img => "alt", applet => "alt"}

This means that <IMG> and <APPLET> tags are treated as text, and that the text to substitute can be found in the ALT attribute.

=item $p->get_trimmed_text

=item $p->get_trimmed_text( @endtags )

Same as $p->get_text above, but will collapse any sequences of white space to a single space character. Leading and trailing white space is removed.

=item $p->get_phrase

This will return all text found at the current position ignoring any phrasal-level tags. Text is extracted until the first non phrasal-level tag. Textification of tags is the same as for get_text(). This method will collapse white space in the same way as get_trimmed_text() does.

The definition of <i>phrasal-level tags</i> is obtained from the HTML::Tagset module.

=back

=head1 EXAMPLES

This example extracts all links from a document. It will print one line for each link, containing the URL and the textual description between the <A>...</A> tags:

use HTML::TokeParser;
$hp = HTML::TokeParser->new(shift||"index.html");

while (my $token = $hp->get_tag("a")) {
  my $url = $token->[1][href] || ".-";
  my $text = $hp->get_trimmed_text("/a");  
  print "$url\t$text\n";
}
This example extract the `<TITLE>` from the document:

```perl
use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");
if ($p->get_tag("title")) {
    my $title = $p->get_trimmed_text;
    print "Title: $title
";
}
```

=head1 SEE ALSO

L<HTML::PullParser>, L<HTML::Parser>

=head1 COPYRIGHT

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* /opt/cola/permits/1111463916_1606928251.14/0/perl-HTML-Parser-3.71-4.el7-1.src.rpm-cosi-expand-archive-03LEABq/perl-HTML-Parser.spec
No license file was found, but licenses were detected in source scan.

# This library is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=head1 NAME

HTML::Parser - HTML parser class

=head1 SYNOPSIS

```perl
use HTML::Parser ();
```

# Create parser object
```perl
$parser = HTML::Parser->new( api_version => 3,
```
Objects of the C<HTML::Parser> class will recognize markup and separate it from plain text (alias data content) in HTML documents. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

C<HTML::Parser> is not a generic SGML parser. We have tried to make it able to deal with the HTML that is actually "out there", and it normally parses as closely as possible to the way the popular web browsers do it instead of strictly following one of the many HTML specifications from W3C. Where there is disagreement, there is often an option that you can enable to get the official behaviour.

The document to be parsed may be supplied in arbitrary chunks. This makes on-the-fly parsing as documents are received from the network possible.

If event driven parsing does not feel right for your application, you might want to use C<HTML::PullParser>. This is an C<HTML::Parser> subclass that allows a more conventional program structure.

=head1 METHODS

The following method is used to construct a new C<HTML::Parser> object:

=item $p = HTML::Parser->new( %options_and_handlers )
This class method creates a new C<HTML::Parser> object and returns it. Key/value argument pairs may be provided to assign event handlers or initialize parser options. The handlers and parser options can also be set or modified later by the method calls described below.

If a top level key is in the form "<event>_h" (e.g., "text_h") then it assigns a handler to that event, otherwise it initializes a parser option. The event handler specification value must be an array reference. Multiple handlers may also be assigned with the 'handlers => [%handlers]' option. See examples below.

If new() is called without any arguments, it will create a parser that uses callback methods compatible with version 2 of C<HTML::Parser>. See the section on "version 2 compatibility" below for details.

The special constructor option api_version => 2 can be used to initialize version 2 callbacks while still setting other options and handlers. The 'api_version => 3' option can be used if you don't want to set any options and don't want to fall back to v2 compatible mode.

Examples:

$p = HTML::Parser->new(api_version => 3,
  text_h => [ sub {...}, "dtext" ]);;

This creates a new parser object with a text event handler subroutine that receives the original text with general entities decoded.

$p = HTML::Parser->new(api_version => 3,
  start_h => [ 'my_start', "self,tokens" ]);;

This creates a new parser object with a start event handler method that receives the $p and the tokens array.

$p = HTML::Parser->new(api_version => 3,
  handlers => { text => [ @array, "event,text"],
               comment => [ @array, "event,text"],
               });

This creates a new parser object that stores the event type and the original text in @array for text and comment events.

=back

The following methods feed the HTML document to the C<HTML::Parser> object:
=over

=item $p->parse( $string )

Parse $string as the next chunk of the HTML document. Handlers invoked should not attempt to modify the $string in-place until $p->parse returns.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse() will return a FALSE value. Otherwise the return value is a reference to the parser object ($p).

=item $p->parse( $code_ref )

If a code reference is passed as the argument to be parsed, then the chunks to be parsed are obtained by invoking this function repeatedly. Parsing continues until the function returns an empty (or undefined) result. When this happens $p->eof is automatically signaled.

Parsing will also abort if one of the event handlers calls $p->eof.

The effect of this is the same as:

while (1) {
  my $chunk = &$code_ref;
  if (!defined($chunk) || !length($chunk)) {
    $p->eof;
    return $p;
  }
  $p->parse($chunk) || return undef;
}

But it is more efficient as this loop runs internally in XS code.

=item $p->parse_file( $file )

Parse text directly from a file. The $file argument can be a filename, an open file handle, or a reference to an open file handle.

If $file contains a filename and the file can't be opened, then the method returns an undefined value and $! tells why it failed. Otherwise the return value is a reference to the parser object.

If a file handle is passed as the $file argument, then the file will normally be read until EOF, but not closed.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse_file() may not have read the entire file.
On systems with multi-byte line terminators, the values passed for the offset and length argspecs may be too low if parse_file() is called on a file handle that is not in binary mode.

If a filename is passed in, then parse_file() will open the file in binary mode.

=item $p->eof

Signals the end of the HTML document. Calling the $p->eof method outside a handler callback will flush any remaining buffered text (which triggers the C<text> event if there is any remaining text).

Calling $p->eof inside a handler will terminate parsing at that point and cause $p->parse to return a FALSE value. This also terminates parsing by $p->parse_file().

After $p->eof has been called, the parse() and parse_file() methods can be invoked to feed new documents with the parser object.

The return value from eof() is a reference to the parser object.

=back

Most parser options are controlled by boolean attributes. Each boolean attribute is enabled by calling the corresponding method with a TRUE argument and disabled with a FALSE argument. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

Methods that can be used to get and/or set parser options are:

=over

=item $p->attr_encoded

=item $p->attr_encoded( $bool )

By default, the C<attr> and C:@attr> argspecs will have general entities for attribute values decoded. Enabling this attribute leaves entities alone.

=item $p->backquote

=item $p->backquote( $bool )
By default, only ' and " are recognized as quote characters around attribute values. MSIE also recognizes backquotes for some reason. Enabling this attribute provides compatibility with this behaviour.

=item $p->boolean_attribute_value( $val )

This method sets the value reported for boolean attributes inside HTML start tags. By default, the name of the attribute is also used as its value. This affects the values reported for C<tokens> and C<attr> argspecs.

=item $p->case_sensitive

=item $p->case_sensitive( $bool )

By default, tagnames and attribute names are down-cased. Enabling this attribute leaves them as found in the HTML source document.

=item $p->closing_plaintext

=item $p->closing_plaintext( $bool )

By default, "plaintext" element can never be closed. Everything up to the end of the document is parsed in CDATA mode. This historical behaviour is what at least MSIE does. Enabling this attribute makes closing "</plaintext>" tag effective and the parsing process will resume after seeing this tag. This emulates early gecko-based browsers.

=item $p->empty_element_tags

=item $p->empty_element_tags( $bool )

By default, empty element tags are not recognized as such and the "/" before ">" is just treated like a normal name character (unless C<strict_names> is enabled). Enabling this attribute make C<HTML::Parser> recognize these tags.

Empty element tags look like start tags, but end with the character sequence "/>" instead of ">". When recognized by C<HTML::Parser> they cause an artificial end event in addition to the start event. The C<text> for the artificial end event will be empty and the C<tokenpos> array will be undefined even though the the token array will have one element containing the tag name.

=item $p->marked_sections

=item $p->marked_sections( $bool )
By default, section markings like `<![CDATA[...]]>` are treated like ordinary text. When this attribute is enabled section markings are honoured.

There are currently no events associated with the marked section markup, but the text can be returned as `<skipped_text>`.

=item $p->strict_comment

=item $p->strict_comment( $bool )

By default, comments are terminated by the first occurrence of "-->". This is the behaviour of most popular browsers (like Mozilla, Opera and MSIE), but it is not correct according to the official HTML standard. Officially, you need an even number of "--" tokens before the closing ">" is recognized and there may not be anything but whitespace between an even and an odd "--".

The official behaviour is enabled by enabling this attribute.

Enabling of 'strict_comment' also disables recognizing these forms as comments:

</ comment>
<! comment>

=item $p->strict_end

=item $p->strict_end( $bool )

By default, attributes and other junk are allowed to be present on end tags in a manner that emulates MSIE's behaviour.

The official behaviour is enabled with this attribute. If enabled, only whitespace is allowed between the tagname and the final ">".

=item $p->strict_names

=item $p->strict_names( $bool )

By default, almost anything is allowed in tag and attribute names. This is the behaviour of most popular browsers and allows us to parse some broken tags with invalid attribute values like:

<IMG SRC=newprevlstGr.gif ALT=[PREV LIST] BORDER=0>

By default, "LIST]\" is parsed as a boolean attribute, not as
part of the ALT value as was clearly intended. This is also what Mozilla sees.

The official behaviour is enabled by enabling this attribute. If enabled, it will cause the tag above to be reported as text since "LIST\]" is not a legal attribute name.

=item $p->unbroken_text

=item $p->unbroken_text( $bool )

By default, blocks of text are given to the text handler as soon as possible (but the parser takes care always to break text at a boundary between whitespace and non-whitespace so single words and entities can always be decoded safely). This might create breaks that make it hard to do transformations on the text. When this attribute is enabled, blocks of text are always reported in one piece. This will delay the text event until the following (non-text) event has been recognized by the parser.

Note that the C<offset> argspec will give you the offset of the first segment of text and C<length> is the combined length of the segments. Since there might be ignored tags in between, these numbers can't be used to directly index in the original document file.

=item $p->utf8_mode

=item $p->utf8_mode( $bool )

Enable this option when parsing raw undecoded UTF-8. This tells the parser that the entities expanded for strings reported by C<attr>, C<@attr> and C<dtext> should be expanded as decoded UTF-8 so they end up compatible with the surrounding text.

If C<utf8_mode> is enabled then it is an error to pass strings containing characters with code above 255 to the parse() method, and the parse() method will croak if you try.

Example: The Unicode character "\x{2665}" is "\xE2\x99\xA5" when UTF-8 encoded. The character can also be represented by the entity "&hearts;" or "&#x2665". If we feed the parser:

$p->parse("\xE2\x99\xA5&hearts;";);

then C<dtext> will be reported as "\xE2\x99\xA5&hearts;" without C<utf8_mode> enabled, but as "\xE2\x99\xA5xE2\x99\xA5" when enabled. The later string is what you want.
This option is only available with perl-5.8 or better.

=item $p->xml_mode

=item $p->xml_mode( $bool )

Enabling this attribute changes the parser to allow some XML constructs. This enables the behaviour controlled by individually by the $case_sensitive>, $empty_element_tags>, $strict_names> and $xml_pic> attributes and also suppresses special treatment of elements that are parsed as CDATA for HTML.

=item $p->xml_pic

=item $p->xml_pic( $bool )

By default, $processing_instructions> are terminated by "">". When this attribute is enabled, processing instructions are terminated by "">" instead.

=back

As markup and text is recognized, handlers are invoked. The following method is used to set up handlers for different events:

=over

=item $p->handler( event => \&subroutine, $argspec )

=item $p->handler( event => $method_name, $argspec )

=item $p->handler( event => \@accum, $argspec )

=item $p->handler( event => "" );

=item $p->handler( event => undef );

=item $p->handler( event );

=back

This method assigns a subroutine, method, or array to handle an event.

Event is one of $text>, $start>, $end>, $declaration>, $comment>, $process>, $start_document>, $end_document> or $default>.

The $\&subroutine> is a reference to a subroutine which is called to handle the event.

The $method_name> is the name of a method of $p which is called to handle
the event.

The C<@accum> is an array that will hold the event information as sub-arrays.

If the second argument is "", the event is ignored.
If it is undef, the default handler is invoked for the event.

The C<$argspec> is a string that describes the information to be reported for the event. Any requested information that does not apply to a specific event is passed as C<undef>. If argspec is omitted, then it is left unchanged.

The return value from $p->handler is the old callback routine or a reference to the accumulator array.

Any return values from handler callback routines/methods are always ignored. A handler callback can request parsing to be aborted by invoking the $p->eof method. A handler callback is not allowed to invoke the $p->parse() or $p->parse_file() method. An exception will be raised if it tries.

Examples:

$p->handler(start =>  "start", 'self, attr, attrseq, text' );

This causes the "start" method of object $p to be called for 'start' events.
The callback signature is $p->start(%attrib, @attr_seq, $text).

$p->handler(start =>  \&start, 'attr, attrseq, text' );

This causes subroutine start() to be called for 'start' events.
The callback signature is start(%attrib, @attr_seq, $text).

$p->handler(start =>  @accum, 'S", attr, attrseq, text' );

This causes 'start' event information to be saved in @accum.
The array elements will be ['S', %attrib, @attr_seq, $text].

$p->handler(start => "");

This causes 'start' events to be ignored. It also suppresses invocations of any default handler for start events. It is in most cases equivalent to $p->handler(start => sub {}), but is more efficient. It is different from the empty-sub-handler in that C<skipped_text> is not reset by it.

$p->handler(start => undef);
This causes no handler to be associated with start events.  
If there is a default handler it will be invoked.

=back

Filters based on tags can be set up to limit the number of events 
reported.  The main bottleneck during parsing is often the huge number 
of callbacks made from the parser.  Applying filters can improve 
performance significantly.

The following methods control filters:

=over

=item $p->ignore_elements( @tags )

Both the C<start> event and the C<end> event as well as any events that 
would be reported in between are suppressed.  The ignored elements can 
contain nested occurrences of itself.  Example:

$p->ignore_elements(qw(script style));

The C<script> and C<style> tags will always nest properly since their 
content is parsed in CDATA mode.  For most other tags 
C<ignore_elements> must be used with caution since HTML is often not 
I<well formed>.

=item $p->ignore_tags( @tags )

Any C<start> and C<end> events involving any of the tags given are 
suppressed.  To reset the filter (i.e. don't suppress any C<start> and 
C<end> events), call C<ignore_tags> without an argument.

=item $p->report_tags( @tags )

Any C<start> and C<end> events involving any of the tags I<not> given 
are suppressed.  To reset the filter (i.e. report all C<start> and 
C<end> events), call C<report_tags> without an argument.

=back

Internally, the system has two filter lists, one for C<report_tags> 
and one for C<ignore_tags>, and both filters are applied.  This 
effectively gives C<ignore_tags> precedence over C<report_tags>.

Examples:
$p->ignore_tags(qw(style));
$p->report_tags(qw(script style));

results in only C<script> events being reported.

=head2 Argspec

Argspec is a string containing a comma-separated list that describes the information reported by the event. The following argspec identifier names can be used:

=over

=item C<attr>

Attr causes a reference to a hash of attribute name/value pairs to be passed.

Boolean attributes' values are either the value set by $p->boolean_attribute_value, or the attribute name if no value has been set by $p->boolean_attribute_value.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.

General entities are decoded in the attribute values and one layer of matching quotes enclosing the attribute values is removed.

The Unicode character set is assumed for entity decoding.

=item C<@attr>

Basically the same as C<attr>, but keys and values are passed as individual arguments and the original sequence of the attributes is kept. The parameters passed will be the same as the @attr calculated here:

    @attr = map { $_ => $attr->{$_} } @$attrseq;

assuming $attr and $attrseq here are the hash and array passed as the result of C<attr> and C<attrseq> argspecs.

This passes no values for events besides C<start>.

=item C<attrseq>
Attrseq causes a reference to an array of attribute names to be passed. This can be useful if you want to walk the \texttt{attr} hash in the original sequence.

This passes \texttt{undef} except for \texttt{start} events.

Unless \texttt{xml_mode} or \texttt{case_sensitive} is enabled, the attribute names are forced to lower case.

\begin{itemize}
  \item \texttt{column}
  \end{itemize}

Column causes the column number of the start of the event to be passed. The first column on a line is 0.

\begin{itemize}
  \item \texttt{dtext}
  \end{itemize}

Dtext causes the decoded text to be passed. General entities are automatically decoded unless the event was inside a CDATA section or was between literal start and end tags (\texttt{script}, \texttt{style}, \texttt{xmp}, \texttt{iframe}, \texttt{title}, \texttt{textarea} and \texttt{plaintext}).

The Unicode character set is assumed for entity decoding. With Perl version 5.6 or earlier only the Latin-1 range is supported, and entities for characters outside the range 0..255 are left unchanged.

This passes \texttt{undef} except for \texttt{text} events.

\begin{itemize}
  \item \texttt{event}
  \end{itemize}

Event causes the event name to be passed.

The event name is one of \texttt{text}, \texttt{start}, \texttt{end}, \texttt{declaration}, \texttt{comment}, \texttt{process}, \texttt{start_document} or \texttt{end_document}.

\begin{itemize}
  \item \texttt{is_cdata}
  \end{itemize}

\texttt{is_cdata} causes a \texttt{TRUE} value to be passed if the event is inside a CDATA section or between literal start and end tags (\texttt{script}, \texttt{style}, \texttt{xmp}, \texttt{iframe}, \texttt{title}, \texttt{textarea} and \texttt{plaintext}).

if the flag is \texttt{FALSE} for a text event, then you should normally either use \texttt{dtext} or decode the entities yourself before the text is processed further.

\begin{itemize}
  \item \texttt{length}
  \end{itemize}

Length causes the number of bytes of the source text of the event to be passed.
Line causes the line number of the start of the event to be passed.
The first line in the document is 1. Line counting doesn't start
until at least one handler requests this value to be reported.

Offset causes the byte position in the HTML document of the start of
the event to be passed. The first byte in the document has offset 0.

Offset_end causes the byte position in the HTML document of the end of
the event to be passed. This is the same as offset + length.

Self causes the current object to be passed to the handler. If the
handler is a method, this must be the first element in the argspec.

An alternative to passing self as an argspec is to register closures
that capture $self by themselves as handlers. Unfortunately this
creates circular references which prevent the HTML::Parser object
from being garbage collected. Using the self argspec avoids this
problem.

Skipped_text returns the concatenated text of all the events that have
been skipped since the last time an event was reported. Events might
be skipped because no handler is registered for them or because some
filter applies. Skipped text also includes marked section markup,
since there are no events that can catch it.

If an C"">-handler is registered for an event, then the text for this
event is not included in skipped_text. Skipped text both before
and after the C"">-event is included in the next reported
skipped_text.

Same as C<tagname>, but prefixed with "/'" if it belongs to an C<end>
event and "/'!" for a declaration. The C<tag> does not have any prefix
for C<start> events, and is in this case identical to C<tagname>.
This is the element name (or I<generic identifier> in SGML jargon) for start and end tags. Since HTML is case insensitive, this name is forced to lower case to ease string matching.

Since XML is case sensitive, the tagname case is not changed when C<xml_mode> is enabled. The same happens if the C<case_sensitive> attribute is set.

The declaration type of declaration elements is also passed as a tagname, even if that is a bit strange. In fact, in the current implementation tagname is identical to C<token0> except that the name may be forced to lower case.

=item C<token0>

Token0 causes the original text of the first token string to be passed. This should always be the same as $tokens->[0].

For C<declaration> events, this is the declaration type.

For C<start> and C<end> events, this is the tag name.

For C<process> and non-strict C<comment> events, this is everything inside the tag.

This passes undef if there are no tokens in the event.

=item C<tokenpos>

Tokenpos causes a reference to an array of token positions to be passed. For each string that appears in C<tokens>, this array contains two numbers. The first number is the offset of the start of the token in the original C<text> and the second number is the length of the token.

Boolean attributes in a C<start> event will have (0,0) for the attribute value offset and length.

This passes undef if there are no tokens in the event (e.g., C<text>) and for artificial C<end> events triggered by empty element tags.

If you are using these offsets and lengths to modify C<text>, you should either work from right to left, or be very careful to calculate the changes to the offsets.

=item C<tokens>
Tokens causes a reference to an array of token strings to be passed. The strings are exactly as they were found in the original text, no decoding or case changes are applied.

For C<declaration> events, the array contains each word, comment, and delimited string starting with the declaration type.

For C<comment> events, this contains each sub-comment. If $p->strict_comments is disabled, there will be only one sub-comment.

For C<start> events, this contains the original tag name followed by the attribute name/value pairs. The values of boolean attributes will be either the value set by $p->boolean_attribute_value, or the attribute name if no value has been set by $p->boolean_attribute_value.

For C<end> events, this contains the original tag name (always one token).

For C<process> events, this contains the process instructions (always one token).

This passes C<undef> for C<text> events.

=item C<text>

Text causes the source text (including markup element delimiters) to be passed.

=item C<undef>

Pass an undefined value. Useful as padding where the same handler routine is registered for multiple events.

=item C<'...'>

A literal string of 0 to 255 characters enclosed in single (') or double (") quotes is passed as entered.

=back

The whole argspec string can be wrapped up in C<@{...}> to signal that the resulting event array should be flattened. This only makes a difference if an array reference is used as the handler target. Consider this example:

$p->handler(text => [], 'text');
$p->handler(text => [], '@{text}');
With two text events; C<"foo">, C<"bar">; then the first example will end
up with ["foo"], ["bar"] and the second with ["foo", "bar"] in
the handler target array.

=head2 Events

Handlers for the following events can be registered:

=over

=item C<comment>

This event is triggered when a markup comment is recognized.

Example:

<!-- This is a comment -- -- So is this -->

=item C<declaration>

This event is triggered when a I<markup declaration> is recognized.

For typical HTML documents, the only declaration you are
likely to find is <!DOCTYPE ...>.

Example:

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
 "http://www.w3.org/TR/html4/strict.dtd">

DTDs inside <!DOCTYPE ...> will confuse HTML::Parser.

=item C<default>

This event is triggered for events that do not have a specific
handler. You can set up a handler for this event to catch stuff you
did not want to catch explicitly.

=item C<end>

This event is triggered when an end tag is recognized.

Example:

</A>

=item C<end_document>
This event is triggered when $p->eof is called and after any remaining text is flushed. There is no document text associated with this event.

=item C<process>

This event is triggered when a processing instructions markup is recognized.

The format and content of processing instructions are system and application dependent.

Examples:

<? HTML processing instructions >
<? XML processing instructions ?>

=item C<start>

This event is triggered when a start tag is recognized.

Example:

<A HREF="http://www.perl.com/">

=item C<start_document>

This event is triggered before any other events for a new document. A handler for it can be used to initialize stuff. There is no document text associated with this event.

=item C<text>

This event is triggered when plain text (characters) is recognized. The text may contain multiple lines. A sequence of text may be broken between several text events unless $p->unbroken_text is enabled.

The parser will make sure that it does not break a word or a sequence of whitespace between two text events.

=back

=head2 Unicode

C<HTML::Parser> can parse Unicode strings when running under perl-5.8 or better. If Unicode is passed to $p->parse() then chunks of Unicode will be reported to the handlers. The offset and length argspecs will also report their position in terms of characters.
It is safe to parse raw undecoded UTF-8 if you either avoid decoding entities and make sure to not use I<argspecs> that do, or enable the C<utf8_mode> for the parser. Parsing of undecoded UTF-8 might be useful when parsing from a file where you need the reported offsets and lengths to match the byte offsets in the file.

If a filename is passed to $p->parse_file() then the file will be read in binary mode. This will be fine if the file contains only ASCII or Latin-1 characters. If the file contains UTF-8 encoded text then care must be taken when decoding entities as described in the previous paragraph, but better is to open the file with the UTF-8 layer so that it is decoded properly:

```
open(my $fh, "<utf8", "index.html") || die "...: $!";
$p->parse_file($fh);
```

If the file contains text encoded in a charset besides ASCII, Latin-1 or UTF-8 then decoding will always be needed.

=head1 VERSION 2 COMPATIBILITY

When an C<HTML::Parser> object is constructed with no arguments, a set of handlers is automatically provided that is compatible with the old HTML::Parser version 2 callback methods.

This is equivalent to the following method calls:

```perl
$p->handler(start => "start", "self, tagname, attr, attrseq, text");
$p->handler(end => "end", "self, tagname, text");
$p->handler(text => "text", "self, text, is_cdata");
$p->handler(process => "process", "self, token0, text");
$p->handler(comment =>
    sub {
        my($self, $tokens) = @_; 
        for (@$tokens) {$self->comment($_);}}
    "self, tokens");
$p->handler(declaration =>
    sub {
        my $self = shift;
        $self->declaration(substr($_[0], 2, -1));
    }"self, text");
```

Setting up these handlers can also be requested with the "api_version => 2" constructor option.

=head1 SUBCLASSING
The C<HTML::Parser> class is subclassable. Parser objects are plain
hashes and C<HTML::Parser> reserves only hash keys that start with
"_hparser". The parser state can be set up by invoking the init()
method, which takes the same arguments as new().
=head1 EXAMPLES
The first simple example shows how you might strip out comments from
an HTML document. We achieve this by setting up a comment handler that
does nothing and a default handler that will print out anything else:
use HTML::Parser;
HTML::Parser->new(default_h => [sub { print shift }, 'text'],
comment_h => [""],
)->parse_file(shift || die) || die $!;
An alternative implementation is:
use HTML::Parser;
HTML::Parser->new(end_document_h => [sub { print shift },
'skipped_text'],
comment_h
=> [""],
)->parse_file(shift || die) || die $!;
This will in most cases be much more efficient since only a single
callback will be made.
The next example prints out the text that is inside the <title>
element of an HTML document. Here we start by setting up a start
handler. When it sees the title start tag it enables a text handler
that prints any text found and an end handler that will terminate
parsing as soon as the title end tag is seen:
use HTML::Parser ();
sub start_handler
{
return if shift ne "title";
my $self = shift;
$self->handler(text => sub { print shift }, "dtext");
$self->handler(end => sub { shift->eof if shift eq "title"; },
"tagname,self");
}
my $p = HTML::Parser->new(api_version => 3);
$p->handler( start => \&start_handler, "tagname,self");
$p->parse_file(shift || die) || die $!;
print "\n";

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More examples are found in the `eg` directory of the `HTML-Parser` distribution: the program `hhrefsub` shows how you can edit all links found in a document; the program `htextsub` shows how to edit the text only; the program `hstrip` shows how you can strip out certain tags/elements and/or attributes; and the program `htext` show how to obtain the plain text, but not any script/style content.

You can browse the `eg` directory online from the `[Browse]` link on the http://search.cpan.org/~gaas/HTML-Parser/ page.

=head1 BUGS

The `<style>` and `<script>` sections do not end with the first `"/"`, but need the complete corresponding end tag. The standard behaviour is not really practical.

When the `strict_comment` option is enabled, we still recognize comments where there is something other than whitespace between even and odd `"--"` markers.

Once `$p->boolean_attribute_value` has been set, there is no way to restore the default behaviour.

There is currently no way to get both quote characters into the same literal argspec.

Empty tags, e.g. `<""` and `"/"`”, are not recognized. SGML allows them to repeat the previous start tag or close the previous start tag respectively.

NET tags, e.g. "code/.../" are not recognized. This is SGML shorthand for "<code>...</code>".

Unclosed start or end tags, e.g. "<tt<b>...</b></tt>" are not recognized.

=head1 DIAGNOSTICS

The following messages may be produced by HTML::Parser. The notation in this listing is the same as used in L<perldiag>:

=over

=item Not a reference to a hash

(F) The object blessed into or subclassed from HTML::Parser is not a hash as required by the HTML::Parser methods.
=item Bad signature in parser state object at %p

(F) The _hparscor_state element does not refer to a valid state structure. Something must have changed the internal value stored in this hash element, or the memory has been overwritten.

=item _hparscor_state element is not a reference

(F) The _hparscor_state element has been destroyed.

=item Can't find '_hparscor_state' element in HTML::Parser hash

(F) The _hparscor_state element is missing from the parser hash. It was either deleted, or not created when the object was created.

=item API version %s not supported by HTML::Parser %s

(F) The constructor option 'api_version' with an argument greater than or equal to 4 is reserved for future extensions.

=item Bad constructor option '%s'

(F) An unknown constructor option key was passed to the new() or init() methods.

=item Parse loop not allowed

(F) A handler invoked the parse() or parse_file() method. This is not permitted.

=item marked sections not supported

(F) The $p->marked_sections() method was invoked in a HTML::Parser module that was compiled without support for marked sections.

=item Unknown boolean attribute (%d)

(F) Something is wrong with the internal logic that set up aliases for boolean attributes.

=item Only code or array references allowed as handler

(F) The second argument for $p->handler must be either a subroutine reference, then name of a subroutine or method, or a reference to an array.

=item No handler for %s events
The first argument to $p->handler must be a valid event name; i.e. one of "start", "end", "text", "process", "declaration" or "comment".

- item Unrecognized identifier %s in argspec

(F) The identifier is not a known argspec name. Use one of the names mentioned in the argspec section above.

- item Literal string is longer than 255 chars in argspec

(F) The current implementation limits the length of literals in an argspec to 255 characters. Make the literal shorter.

- item Backslash reserved for literal string in argspec

(F) The backslash character "\" is not allowed in argspec literals. It is reserved to permit quoting inside a literal in a later version.

- item Unterminated literal string in argspec

(F) The terminating quote character for a literal was not found.

- item Bad argspec (%s)

(F) Only identifier names, literals, spaces and commas are allowed in argspecs.

- item Missing comma separator in argspec

(F) Identifiers in an argspec must be separated with ",."

- item Parsing of undecoded UTF-8 will give garbage when decoding entities

(W) The first chunk parsed appears to contain undecoded UTF-8 and one or more argspecs that decode entities are used for the callback handlers.

The result of decoding will be a mix of encoded and decoded characters for any entities that expand to characters with code above 127. This is not a good thing.

The recommended solution is to apply Encode::decode_utf8() on the data before feeding it to the $p->parse(). For $p->parse_file() pass a file that has been opened in ":utf8" mode.

The alternative solution is to enable the C<utf8_mode> and not decode before passing strings to $p->parse(). The parser can process raw undecoded UTF-8
sanely if the C<utf8_mode> is enabled, or if the "attr", "@attr" or "dtext" argspecs are avoided.

=item Parsing string decoded with wrong endianness

(W) The first character in the document is U+FFFE. This is not a legal Unicode character but a byte swapped BOM. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-32

(W) The parser found the Unicode UTF-32 BOM signature at the start of the document. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-16

(W) The parser found the Unicode UTF-16 BOM signature at the start of the document. The result of parsing will likely be garbage.

=back

=head1 SEE ALSO

L<HTML::Entities>, L<HTML::PullParser>, L<HTML::TokeParser>, L<HTML::HeadParser>, L<HTML::LinkExtor>, L<HTML::Form>

L<HTML::TreeBuilder> (part of the I<HTML-Tree> distribution)

L<http://www.w3.org/TR/html4/>

More information about marked sections and processing instructions may be found at L<http://www.is-thought.co.uk/book/sgml-8.htm>.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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The End

1.1576 libyaml 0.1.4-3ubuntu3.1
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1.1577 libarchive-extract-perl 0.70-1
1.1577.1 Available under license :
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---
abstract: 'Generic archive extracting mechanism'
author:
Jos Boumans <kane@cpan.org>

build_requires:
ExtUtils::MakeMaker: 0
configure_requires:
ExtUtils::MakeMaker: 0
dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.82, CPAN::Meta::Converter version 2.132830'

license: perl

meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4

name: Archive-Extract

no_index:
directory:
  - t
  - inc

requires:
  File::Basename: 0
  File::Path: 0
  File::Spec: 0.82
  IPC::Cmd: 0.64
  Locale::Maketext::Simple: 0
  Module::Load::Conditional: 0.04
  Params::Check: 0.07
  Test::More: 0
  if: 0

resources:
  repository: https://github.com/jib/archive-extract

version: 0.70

Found in path(s):
* /opt/cola/permits/1138400371_1614281819.41/0/libarchive-extract-perl-0-70-orig-1-tar-gz/Archive-Extract-0.70/META.yml

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=pod

=head1 HOW IT WORKS

C<Archive::Extract> tries first to determine what type of archive you are passing it, by inspecting its suffix. It does not do this by using Mime magic, or something related. See C<CAVEATS> below.

Once it has determined the file type, it knows which extraction methods it can use on the archive. It will try a perl solution first, then fall back to a commandline tool if that fails. If that also fails, it will return false, indicating it was unable to extract the archive.

See the section on C<GLOBAL VARIABLES> to see how to alter this order.
=head1 CAVEATS

=head2 File Extensions

C<Archive::Extract> trusts on the extension of the archive to determine what type it is, and what extractor methods therefore can be used. If your archives do not have any of the extensions as described in the C<new()> method, you will have to specify the type explicitly, or C<Archive::Extract> will not be able to extract the archive for you.

=head2 Supporting Very Large Files

C<Archive::Extract> can use either pure perl modules or command line programs under the hood. Some of the pure perl modules (like C<Archive::Tar> and Compress::unLZMA) take the entire contents of the archive into memory, which may not be feasible on your system. Consider setting the global variable C<$Archive::Extract::PREFER_BIN> to C<1>, which will prefer the use of command line programs and won't consume so much memory.

See the C<GLOBAL VARIABLES> section below for details.

=head2 Bunzip2 support of arbitrary extensions.

Older versions of C</bin/bunzip2> do not support arbitrary file extensions and insist on a C<bz2> suffix. Although we do our best to guard against this, if you experience a bunzip2 error, it may be related to this. For details, please see the C<have_old_bunzip2> method.

=head1 GLOBAL VARIABLES

=head2 $Archive::Extract::DEBUG

Set this variable to C<true> to have all calls to command line tools be printed out, including all their output. This also enables C<Carp::longmess> errors, instead of the regular C<carp> errors.

Good for tracking down why things don't work with your particular setup.

Defaults to C<false>.

=head2 $Archive::Extract::WARN

This variable controls whether errors encountered internally by C<Archive::Extract> should be C<carp>’d or not.
Set to false to silence warnings. Inspect the output of the C<error()> method manually to see what went wrong.

Defaults to C<true>.

=head2 $Archive::Extract::PREFER_BIN

This variables controls whether C<Archive::Extract> should prefer the use of perl modules, or commandline tools to extract archives.

Set to C<true> to have C<Archive::Extract> prefer commandline tools.

Defaults to C<false>.

=head1 TODO / CAVEATS

=item Mime magic support

Maybe this module should use something like C<File::Type> to determine the type, rather than blindly trust the suffix.

=item Thread safety

Currently, C<Archive::Extract> does a C<chdir> to the extraction dir before extraction, and a C<chdir> back again after. This is not necessarily thread safe. See C<rt.cpan.org> bug C<#45671> for details.

=back

=head1 BUG REPORTS

Please report bugs or other issues to E<lt>bug-archive-extract@rt.cpan.orgE<gt>.

=head1 AUTHOR

This module by Jos Boumans E<lt>kane@cpan.orgE<gt>.

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This is the README file for Archive::Extract, a perl module for
generic archive extraction

Please refer to 'perldoc Archive::Extract' after installation for details.

* Description

Archive::Extract

Archive::Extract is a generic archive extraction mechanism.

It allows you to extract .tgz, .tar, .gz and .zip files, using
either perl modules or commandline tools

* Installation

Archive::Extract follows the standard perl module install process

perl Makefile.PL
make
make test
make install

The module uses no C or XS parts, so no c-compiler is required.

* AUTHOR

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Found in path(s):
* /opt/cola/permits/1138400371_1614281819.41/0/libarchive-extract-perl-0-70-orig-1-tar-gz/Archive-Extract-0.70/lib/Archive/Extract.pm
* /opt/cola/permits/1138400371_1614281819.41/0/libarchive-extract-perl-0-70-orig-1-tar-gz/Archive-Extract-0.70/README
1.1578 traceroute 2.0.22 2.el7

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* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/NCSARequestLog.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/servlet/ServletMapping.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/webapp/JarScanner.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/Suspendable.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/servlet/NoJspServlet.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/handler/HandlerList.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/handler/ContextHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/resource/ResourceCollection.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/resource/ResourceCollection.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/deployer/ContextDeployer.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/HttpException.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/HttpOnlyCookie.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/io/ByteArrayEndPoint.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/io/nio/SelectorManager.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/io/bio/StringEndPoint.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/RequestLogHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/handler/RequestLogHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/handler/ContextHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/deployer/ConfigurationManager.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/config/HttpOnlyCookie.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/NEOConnector.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/io/NEOConnector.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/io/bio/StringEndPoint.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/HttpException.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/HttpOnlyCookie.java
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* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/ContextHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/ContextHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/ContextHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/HttpContext.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/HttpContext.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/HttpContext.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/HttpContext.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/http/HttpContext.java
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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL & 2=DC_CONFIDENTIAL
 */
/**
* @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL & 2=DC_CONFIDENTIAL
*/

Found in path(s):
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/security/Constraint.java
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* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/invoker/Invoker.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/jetty/session/ErrorPageErrorHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/jetty/session/JDBCUserRealm.java
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* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/jetty/session/ResourceHandler.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/jetty/session/SessionManager.java
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/jetty/session/ResourceCache.java
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/**
 * @return The port to use when redirecting a request if a data constraint of confidential is
 * required. See { @link org.mortbay.jetty.security.Constraint#getDataConstraint()}
 */
/**
 * @return The schema to use when redirecting a request if a data constraint of confidential is

* required. See {@link org.mortbay.jetty.security.Constraint#getDataConstraint()}
*/
/**
 * @param request A request
 * @return true if the request is confidential. This normally means the https schema has been used.
 */

Found in path(s):
* /opt/cola/permits/1129243866_1612210553.92/0/jetty-7-0-0pre3-sources-2-jar/org/mortbay/jetty/Connector.java
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Found in path(s):
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/**
 * @return The port to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @return The schema to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @param request A request
 * @return true if the request is confidential. This normally means the https schema has been used.
 */

Found in path(s):
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/Connector.java
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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling [@link Connector#isConfidential(Request)], or false
 * if there is no connector
 */

Found in path(s):
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-
jar/org/eclipse/jetty/server/AbstractHttpConnection.java
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been told about an
 * confidential port, and said port is not our port, then we're not. This allows separation of
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
 * configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */

/**
 * By default, we're integral, given we speak SSL. But, if we've been told about an integral
 * port, and said port is not our port, then we're not. This allows separation of listeners
 * providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
 * require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
 * client certs providing mere INTEGRAL constraints.
 */

Found in path(s):
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-
jar/org/eclipse/jetty/server/ssl/SslSocketConnector.java
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AbstractConnector: Abstract implementation of the Connector interface.
acceptors: The number of acceptor threads.
acceptQueueSize: The size of the accept queue.
acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor
the acceptance of new threads and newly active connections or to favor the handling of already dispatched connections.

- forwardedForHeader: The header name for forwarded for (default x-forwarded-for).
- forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host).
- forwardedServerHeader: The header name for forwarded server (default x-forwarded-server).
- forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server headers.

- host: Host name of the server.
- hostHeader: Forced value for the host header. Only used if forwarded is true.
- soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.
- reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.
- name: Name of the connector.
- resolveNames: Whether or not to use DNS when handling forwards.
- confidentialPort: Port to use for confidential redirections.
- confidentialScheme: Scheme to use for confidential redirections.
- integralPort: Port to use for integral redirections.
- integralScheme: Scheme to use for integral redirections.
- lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources, before it is closed.

Found in path(s):
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/jmx/AbstractConnector-mbean.properties
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/*
 * @see org.eclipse.jetty.server.Connector#getConfidentialPort()
 */
/*
 * @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
 */
/*
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/*
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/**
 * @param confidentialPort
 * The confidentialPort to set.
 */
/**

@param confidentialScheme
 * The confidentialScheme to set.
 */

Found in path(s):
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/AbstractConnector.java
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* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/ResourceCache.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/handler/IPAccessHandler.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/handler/ContextHandler.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/handler/ConnectHandler.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/jmx/ServerMBean.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/nio/AbstractNIOConnector.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/Response.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/UserIdentity.java
* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/handler/ContextHandler.java
*/
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Connector: HTTP Connector.

server: MObject:RO:The server for this connector
requestHeaderSize: The size of a request header buffer
requestBufferSize: The size of a request content buffer
responseHeaderSize: The size of a response header buffer
responseBufferSize: The size of a response content buffer
integralPort: Port to use for integral redirections
integralScheme: Scheme to use for integral redirections
confidentialPort: Port to use for confidential redirections
confidentialScheme: Scheme to use for confidential redirections
host: Host name to accept connections on
port: TCP/IP port to accept connections on
maxIdleTime: Maximum time in ms that a connection can be idle before being closed
statsOn: True if statistics collection is turned on.
statsOnMs: Time in milliseconds stats have been collected for.
statsReset(): Reset statistics.
connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).
connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).
connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationTotal: Total duration in milliseconds of all open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).
open(): Open the listening port
close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

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/**
 * By default, we're confidential, given we speak SSL. But, if we've been
told about an confidential port, and said port is not our port, then
we're not. This allows separation of listeners providing INTEGRAL versus
* CONFIDENTIAL constraints, such as one SSL listener configured to require
* client certs providing CONFIDENTIAL, whereas another SSL listener not
* requiring client certs providing mere INTEGRAL constraints.
*/

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* /opt/cola/permits/1126356320_1611624451.27/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.java

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If such an object file uses only numerical parameters, data
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package simulator

import (  
  "github.com/vmware/govmomi/object"  
  "github.com/vmware/govmomi/vim25/methods"  
  "github.com/vmware/govmomi/vim25/mo"  
  "github.com/vmware/govmomi/vim25/soap"  
  "github.com/vmware/govmomi/vim25/types"  
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }
// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }
        if Map.Get(id) == nil {
            return body
        }
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body

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BSON library for Go

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mgo - MongoDB driver for Go

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Go support for Protocol Buffers - Google's data interchange format

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Version: v1.3.1
Revision: 2f1ce7a837dcb8da3ec595b1dac9d0632f0f99e8
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Dependency: github.com/fsouza/go-dockerclient
Version: beats-branch
Revision: ba365ff5e4281feb28654e4ca599a1defd063497
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Dependency: github.com/mattn/go-isatty
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Dependency: github.com/opencontainers/go-digest
Revision: eaa60544f31c3f3b0653b1a118b76d33418ff41b
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Dependency: github.com/opencontainers/image-spec
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Dependency: github.com/pierrec/lz4
Revision: 90290f74b1b4d9e9720a3b3c7eba2ef3875c699
Open Source Used In Tetration 3.5.1 16284

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mgo - MongoDB driver for Go

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.1602 libjpeg 8d

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This is Debian's prepackaged version of the `jpeg library' by the Independent JPEG Group.

This package was created by Mark Mickan <mmickan@debian.org> from sources which can be found at ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz

It is partly based on the libjpeg6a package originally put together by Andy Guy <awpguy@acs.ucalgary.ca> and later maintained by Mark Mickan.

Current Debian maintainer is Bill Allombert <ballombe@debian.org>.

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1.1608 xfsprogs 4.5.0 20.el7

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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#*+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----------------------------------------------
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jloup@gzip.org          madler@alumni.caltech.edu
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cmd/krb5/prop/prop_hdr.h
cmd/krb5/kadmin/server/propd_svc.c
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
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lib/krb5/kdb/kdb_log.c
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```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_acquire_cred.c
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lib/libgss/g_canon_name.c
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lib/libgss/g_compare_name.c
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lib/libgss/g_context_time.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_name.c
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lib/libgss/g_dsp_status.c
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lib/libgss/g_dup_name.c
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lib/libgss/g_exp_sec_context.c
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lib/libgss/g_export_name.c
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lib/libgss/g_glue.c
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lib/libgss/g_imp_name.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dup_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_glue.c
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
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lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
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lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
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lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego Mech.c

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  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/headers/Utils.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtocolDetectionResult.java

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  jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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  jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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  jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
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/**
  * Utility class for {@link ByteBuf} that encodes and decodes to and from
  * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
  * <p>
  * The encoding and decoding algorithm in this class has been derived from
  * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
  * Base64 Encoder/Decoder</a>.
  */

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jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/marshalling/FrameDecoder.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *<pre>
 *<b>lengthFieldOffset</b>   = <b>0</b>
 */

The value of the length field in this example is <tt>12 (0x0C)</tt> which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.
<pre>
<b>lengthFieldOffset</b>   = <b>0</b>
</pre>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)

* BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

* </pre>

* <h3>2 bytes length field at offset 0, strip header</h3>

* Because we can get the length of the content by calling
  * {@link ByteBuf#readableBytes()}, you might want to strip the length
  * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
  * specified <tt>2</tt>, that is same with the length of the length field, to
  * strip the first two bytes.

* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>

* BEFORE DECODE (14 bytes)       AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+

* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
  * represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * <tt>lengthAdjustment</tt>. Because the length value in this example message
  * is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
  * as <tt>lengthAdjustment</tt> for compensation.

* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>

* BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+ 
* | Length | Actual Content |----->| Length | Actual Content | 
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" | 
* +--------+----------------+      +--------+----------------+ 
* </pre> 
* 
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3> 
* 
* The following message is a simple variation of the first example. An extra 
* header value is prepended to the message. &lt;tt&gt;lengthAdjustment&lt;/tt&gt; is zero 
* again because the decoder always takes the length of the prepended data into 
* account during frame length calculation. 
* &lt;pre&gt; 
* &lt;b&gt;lengthFieldOffset&lt;/b&gt; = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1) 
* &lt;b&gt;lengthFieldLength&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt; 
* &lt;b&gt;initialBytesToStrip = 0 &lt;/b&gt; 
* 
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes) 
* +----------+----------+----------------+      +----------+----------+----------------+ 
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content | 
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" | 
* +----------+----------+----------------+      +----------+----------+----------------+ 
* </pre> 
* 
* &lt;h3&gt;3 bytes length field at the beginning of 5 bytes header, do not strip header&lt;/h3&gt; 
* 
* This is an advanced example that shows the case where there is an extra 
* header between the length field and the message body. You have to specify a 
* positive &lt;tt&gt;lengthAdjustment&lt;/tt&gt; so that the decoder counts the extra 
* header into the frame length calculation. 
* &lt;pre&gt; 
* &lt;b&gt;lengthFieldOffset = 0 
* &lt;b&gt;lengthFieldLength = 3 
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1) 
* &lt;b&gt;initialBytesToStrip = 0 &lt;/b&gt; 
* 
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes) 
* +----------+----------+----------------+      +----------+----------+----------------+ 
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content | 
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" | 
* +----------+----------+----------------+      +----------+----------+----------------+ 
* </pre> 
* 
* &lt;h3&gt;2 bytes length field at offset 1 in the middle of 4 bytes header, 
* strip the first header field and the length field&lt;/h3&gt; 
* 
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the \texttt{lengthFieldOffset} and the extra
* header affects the \texttt{lengthAdjustment}. We also specified a non-zero
* \texttt{initialBytesToStrip} to strip the length field and the prepended
* header from the frame. If you don’t want to strip the prepended header, you
* could specify \texttt{0} for \texttt{initialBytesToSkip}.

\begin{verbatim}
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* \texttt{lengthAdjustment} = \texttt{1} (= the length of HDR2)
* \texttt{initialBytesToStrip} = \texttt{3} (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)   AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | “HELLO, WORLD” |      | 0xFE | “HELLO, WORLD” |
* +------+--------+------+----------------+      +------+----------------+
\end{verbatim}

* \texttt{lengthFieldOffset} = 1 (= the length of HDR1)
* \texttt{lengthFieldLength} = 2
* \texttt{lengthAdjustment} = \texttt{-3} (= the length of HDR1 + LEN, negative)
* \texttt{initialBytesToStrip} = \texttt{3}

\begin{verbatim}
* BEFORE DECODE (16 bytes)   AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | “HELLO, WORLD” |      | 0xFE | “HELLO, WORLD” |
* +------+--------+------+----------------+      +------+----------------+
\end{verbatim}

* Let’s give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}.
* Please note that we don’t need to take the length of HDR2 into account
* because the length field already includes the whole header length.

\begin{verbatim}
* lengthFieldOffset = 1
* lengthFieldLength = 2
* \texttt{lengthAdjustment} = \texttt{-3} (= the length of HDR1 + LEN, negative)
* \texttt{initialBytesToStrip} = \texttt{3}
*
* BEFORE DECODE (16 bytes)   AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | “HELLO, WORLD” |      | 0xFE | “HELLO, WORLD” |
* +------+--------+------+----------------+      +------+----------------+
\end{verbatim}

* \texttt{lengthFieldPrepender}

@see LengthFieldPrepender

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Protocol Buffers for Go with Gadgets

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HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
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Mesa 3-D graphics library
Version: 7.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.3.24.v20180605
url: http://www.eclipse.org/jetty
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Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Continuation
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.continuation
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.3.24.v20180605
Export-Package: org.eclipse.jetty.continuation;version="9.3.24";uses:="javax.servlet"
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1.1667 python-pip 7.1.0-2.el6

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Jeff Gilchrist, Ottawa, Canada.
pbzip2@compression.ca
pbzip2 version 1.1.8 of Jun 10, 2012

1.1670 busybox 1.15.1 21.el6_6

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (Postfix) with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
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for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.1671 cpp 4.4.7-18.el6
1.1671.1 Available under license:

Jan 21, 2002

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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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* m4/ax_func_which_gethostname_r.m4

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Version 3.1, 31 March 2009

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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user can modify the Library and then relink to produce a modified
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import java.io.IOException;
import java.net.InetSocketAddress;
import java.util.ArrayList;
import java.util.EnumSet;
import java.util.List;
import java.util.Set;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationClientProtocol;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationReportRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationRequest;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.ApplicationReport;
import org.apache.hadoop.yarn.api.records.ApplicationSubmissionContext;
import org.apache.hadoop.yarn.api.records.QueueInfo;
import org.apache.hadoop.yarn.api.records.QueueUserACLInfo;
import org.apache.hadoop.yarn.api.records.YarnApplicationState;
import org.apache.hadoop.yarn.api.records.YarnClusterMetrics;
import org.apache.hadoop.yarn.client.ClientRMProxy;
import org.apache.hadoop.yarn.client.api.YarnClient;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.security.AMRMTokenIdentifier;
import org.apache.hadoop.yarn.util.ConverterUtils;
import org.apache.hadoop.yarn.util.Records;
import com.google.common.annotations.VisibleForTesting;

@Private
@Unstable
public class YarnClientImpl extends YarnClient {

private static final Log LOG = LogFactory.getLog(YarnClientImpl.class);

protected ApplicationClientProtocol rmClient;
protected InetSocketAddress rmAddress;
protected long statePollIntervalMillis;

private static final String ROOT = "root";

public YarnClientImpl() {
    super(YarnClientImpl.class.getName());
}

private static InetSocketAddress getRmAddress(Configuration conf) {
    return conf.getSocketAddr(YarnConfiguration.RM_ADDRESS,
}
YarnConfiguration.DEFAULT_RM_ADDRESS, YarnConfiguration.DEFAULT_RM_PORT);
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    this.rmAddress = getRmAddress(conf);
    statePollIntervalMillis = conf.getLong(
        YarnConfiguration.YARN_CLIENT_APP_SUBMISSION_POLL_INTERVAL_MS,
        YarnConfiguration.DEFAULT_YARN_CLIENT_APP_SUBMISSION_POLL_INTERVAL_MS);
    super.serviceInit(conf);
}

@Override
protected void serviceStart() throws Exception {
    try {
        rmClient = ClientRMProxy.createRMProxy(getConfig(),
            ApplicationClientProtocol.class);
    } catch (IOException e) {
        throw new YarnRuntimeException(e);
    }
    super.serviceStart();
}

@Override
protected void serviceStop() throws Exception {
    if (this.rmClient != null) {
        RPC.stopProxy(this.rmClient);
    }
    super.serviceStop();
}

private GetNewApplicationResponse getNewApplication()
    throws YarnException, IOException {
    GetNewApplicationRequest request =
        Records.newRecord(GetNewApplicationRequest.class);
    return rmClient.getNewApplication(request);
}

@Override
public YarnClientApplication createApplication()
    throws YarnException, IOException {
    ApplicationSubmissionContext context = Records.newRecord
        (ApplicationSubmissionContext.class);
    GetNewApplicationResponse newApp = getNewApplication();
    ApplicationId appId = newApp.getApplicationId();
    context.setApplicationId(appId);
    return new YarnClientApplication(newApp, context);
@Override
public ApplicationId submitApplication(ApplicationSubmissionContext appContext) throws YarnException, IOException {
    ApplicationId applicationId = appContext.getApplicationId();
    appContext.setApplicationId(applicationId);
    SubmitApplicationRequest request =
        Records.newRecord(SubmitApplicationRequest.class);
    request.setApplicationSubmissionContext(appContext);
    rmClient.submitApplication(request);

    int pollCount = 0;
    while (true) {
        YarnApplicationState state =
            getApplicationReport(applicationId).getYarnApplicationState();
        if (!state.equals(YarnApplicationState.NEW) &&
            !state.equals(YarnApplicationState.NEW_SAVING)) {
            break;
        }
        // Notify the client through the log every 10 poll, in case the client
        // is blocked here too long.
        if (++pollCount % 10 == 0) {
            LOG.info("Application submission is not finished, " +
                    "submitted application " + applicationId +
                    " is still in " + state);
        }
        try {
            Thread.sleep(statePollIntervalMillis);
        } catch (InterruptedException ie) {
        }
    }

    LOG.info("Submitted application " + applicationId + " to ResourceManager" + " at " + rmAddress);
    return applicationId;
}

@Override
public void killApplication(ApplicationId applicationId) throws YarnException, IOException {
    LOG.info("Killing application " + applicationId);
    KillApplicationRequest request =
        Records.newRecord(KillApplicationRequest.class);
    request.setApplicationId(applicationId);
    rmClient.forceKillApplication(request);
}
@Override
public ApplicationReport getApplicationReport(ApplicationId appId)
    throws YarnException, IOException {
GetApplicationReportRequest request =
    Records.newRecord(GetApplicationReportRequest.class);
request.setApplicationId(appId);
GetApplicationReportResponse response =
    rmClient.getApplicationReport(request);
return response.getApplicationReport();
}

public org.apache.hadoop.security.token.Token<AMRMTokenIdentifier>
    getAMRMToken(ApplicationId appId) throws YarnException, IOException {
    Token token = getApplicationReport(appId).getAMRMToken();
    org.apache.hadoop.security.token.Token<AMRMTokenIdentifier> amrmToken =
        null;
    if (token != null) {
        amrmToken = ConverterUtils.convertFromYarn(token, null);
    }
    return amrmToken;
}

@Override
public List<ApplicationReport> getApplications() throws YarnException,
    IOException {
    return getApplications(null, null);
}

@Override
public List<ApplicationReport> getApplications(Set<String> applicationTypes)
    throws YarnException, IOException {
    return getApplications,applicationTypes, null);
}

@Override
public List<ApplicationReport> getApplications(
    EnumSet<YarnApplicationState> applicationStates)
    throws YarnException, IOException {
    return getApplications(null, applicationStates);
}

@Override
public List<ApplicationReport> getApplications(Set<String> applicationTypes,
    EnumSet<YarnApplicationState> applicationStates) throws YarnException,
    IOException {
    GetApplicationsRequest request =

GetApplicationsRequest.newInstance(applicationTypes, applicationStates);
GetApplicationsResponse response = rmClient.getApplications(request);
return response.getApplicationList();
}

@Override
public YarnClusterMetrics getYarnClusterMetrics() throws YarnException,
IOException {
GetClusterMetricsRequest request =
Records.newRecord(GetClusterMetricsRequest.class);
GetClusterMetricsResponse response = rmClient.getClusterMetrics(request);
return response.getClusterMetrics();
}

@Override
public List<NodeReport> getNodeReports(NodeState... states) throws YarnException,
IOException {
EnumSet<NodeState> statesSet = (states.length == 0) ?
EnumSet.allOf(NodeState.class) : EnumSet.noneOf(NodeState.class);
for (NodeState state : states) {
statesSet.add(state);
}
GetClusterNodesRequest request = GetClusterNodesRequest
.newInstance(statesSet);
GetClusterNodesResponse response = rmClient.getClusterNodes(request);
return response.getNodeReports();
}

@Override
public Token getRMDelegationToken(Text renewer)
throws YarnException, IOException {
/* get the token from RM */
GetDelegationTokenRequest rmDTRequest =
Records.newRecord(GetDelegationTokenRequest.class);
rmDTRequest.setRenewer(renewer.toString());
GetDelegationTokenResponse response =
rmClient.getDelegationToken(rmDTRequest);
return response.getRMDelegationToken();
}

private GetQueueInfoRequest
getQueueInfoRequest(String queueName, boolean includeApplications,
boolean includeChildQueues, boolean recursive) {
GetQueueInfoRequest request = Records.newRecord(GetQueueInfoRequest.class);
request.setQueueName(queueName);
request.setIncludeApplications(includeApplications);
request.setIncludeChildQueues(includeChildQueues);
request.setRecursive(recursive);
return request;
}

@Override
public QueueInfo getQueueInfo(String queueName) throws YarnException, IOException {
    GetQueueInfoRequest request =
        getQueueInfoRequest(queueName, true, false, false);
    Records.newRecord(GetQueueInfoRequest.class);
    return rmClient.getQueueInfo(request).getQueueInfo();
}

@Override
public List<QueueUserACLInfo> getQueueAclsInfo() throws YarnException, IOException {
    GetQueueUserAclsInfoRequest request =
        Records.newRecord(GetQueueUserAclsInfoRequest.class);
    return rmClient.getQueueUserAcls(request).getUserAclsInfoList();
}

@Override
public List<QueueInfo> getAllQueues() throws YarnException, IOException {
    List<QueueInfo> queues = new ArrayList<QueueInfo>();

    QueueInfo rootQueue =
        rmClient.getQueueInfo(getQueueInfoRequest(ROOT, false, true, true)).getQueueInfo();
    getChildQueues(rootQueue, queues, true);
    return queues;
}

@Override
public List<QueueInfo> getRootQueueInfos() throws YarnException, IOException {
    List<QueueInfo> queues = new ArrayList<QueueInfo>();

    QueueInfo rootQueue =
        rmClient.getQueueInfo(getQueueInfoRequest(ROOT, false, true, true)).getQueueInfo();
    getChildQueues(rootQueue, queues, false);
    return queues;
}

@Override
public List<QueueInfo> getChildQueueInfos(String parent) throws YarnException, IOException {

List<QueueInfo> queues = new ArrayList<QueueInfo>();

QueueInfo parentQueue =
    rmClient.getQueueInfo(getQueueInfoRequest(parent, false, true, false))
    .getQueueInfo();
getChildQueues(parentQueue, queues, true);
return queues;
}

private void getChildQueues(QueueInfo parent, List<QueueInfo> queues,
    boolean recursive) {
    List<QueueInfo> childQueues = parent.getChildQueues();
    for (QueueInfo child : childQueues) {
        queues.add(child);
        if (recursive) {
            getChildQueues(child, queues, recursive);
        }
    }
}

@Private
@VisibleForTesting
public void setRMClient(ApplicationClientProtocol rmClient) {
    this.rmClient = rmClient;
}

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 */

package org.apache.hadoop.yarn.client.api.async.impl;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.EnumSet;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.ThreadFactory;
import java.util.concurrent.ThreadPoolExecutor;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.locks.ReentrantReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock.ReadLock;
import java.util.concurrent.locks.ReentrantReadWriteLock.WriteLock;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.client.api.NMClient;
import org.apache.hadoop.yarn.client.api.async.NMClientAsync;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.event.AbstractEvent;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
import org.apache.hadoop.yarn.state.InvalidStateTransitionException;
import org.apache.hadoop.yarn.state.MultipleArcTransition;
import org.apache.hadoop.yarn.state.SingleArcTransition;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import com.google.common.annotations.VisibleForTesting;
import com.google.common.util.concurrent.ThreadFactoryBuilder;

@Private
@Unstable
public class NMClientAsyncImpl extends NMClientAsync {


private static final Log LOG = LogFactory.getLog(NMClientAsyncImpl.class);

protected static final int INITIAL_THREAD_POOL_SIZE = 10;

protected ThreadPoolExecutor threadPool;
protected int maxThreadPoolSize;
protected Thread eventDispatcherThread;
protected AtomicBoolean stopped = new AtomicBoolean(false);
protected BlockingQueue<ContainerEvent> events =
    new LinkedBlockingQueue<ContainerEvent>();

protected ConcurrentHashMap<ContainerId, StatefulContainer> containers =
    new ConcurrentHashMap<ContainerId, StatefulContainer>();

public NMClientAsyncImpl(CallbackHandler callbackHandler) {
    this(NMClientAsyncImpl.class.getName(), callbackHandler);
}

public NMClientAsyncImpl(String name, CallbackHandler callbackHandler) {
    this(name, new NMClientImpl(), callbackHandler);
}

@Private
@VisibleForTesting
protected NMClientAsyncImpl(String name, NMClient client,
    CallbackHandler callbackHandler) {
    super(name, client, callbackHandler);
    this.client = client;
    this.callbackHandler = callbackHandler;
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    this.maxThreadPoolSize = conf.getInt(
        YarnConfiguration.NM_CLIENT_ASYNC_THREAD_POOL_MAX_SIZE,
        YarnConfiguration.DEFAULT_NM_CLIENT_ASYNC_THREAD_POOL_MAX_SIZE);
    LOG.info("Upper bound of the thread pool size is " + maxThreadPoolSize);

    client.init(conf);
    super.serviceInit(conf);
}

@Override
protected void serviceStart() throws Exception {
    client.start();

    ThreadFactory tf = new ThreadFactoryBuilder().setNameFormat("NM-Async-Client");
}
this.getClass().getName() + " #%d".setDaemon(true).build();

// Start with a default core-pool size and change it dynamically.
int initSize = Math.min(INITIAL_THREAD_POOL_SIZE, maxThreadPoolSize);
threadPool = new ThreadPoolExecutor(initSize, Integer.MAX_VALUE, 1,
    TimeUnit.HOURS, new LinkedBlockingQueue<Runnable>(), tf);

eventDispatcherThread = new Thread() {
    @Override
    public void run() {
        ContainerEvent event = null;
        Set<String> allNodes = new HashSet<String>();

        while (!stopped.get() && !Thread.currentThread().isInterrupted()) {
            try {
                event = events.take();
            } catch (InterruptedException e) {
                if (!stopped.get()) {
                    LOG.error("Returning, thread interrupted", e);
                }
                return;
            }

            allNodes.add(event.getNodeId().toString());

            int threadPoolSize = threadPool.getCorePoolSize();

            // We can increase the pool size only if haven't reached the maximum
            // limit yet.
            if (threadPoolSize != maxThreadPoolSize) {

                // nodes where containers will run at *this* point of time. This is
                // *not* the cluster size and doesn't need to be.
                int nodeNum = allNodes.size();
                int idealThreadPoolSize = Math.min(maxThreadPoolSize, nodeNum);

                if (threadPoolSize < idealThreadPoolSize) {
                    // Bump up the pool size to idealThreadPoolSize +
                    // INITIAL_POOL_SIZE, the later is just a buffer so we are not
                    // always increasing the pool-size
                    int newThreadPoolSize = Math.min(maxThreadPoolSize,
                        idealThreadPoolSize + INITIAL_THREAD_POOL_SIZE);
                    LOG.info("Set NMClientAsync thread pool size to " +
                        newThreadPoolSize + " as the number of nodes to talk to is " + nodeNum);
                    threadPool.setCorePoolSize(newThreadPoolSize);
                }
            }
        }
    }
}
// the events from the queue are handled in parallel with a thread
// pool
threadPool.execute(getContainerEventProcessor(event));

// TODO: Group launching of multiple containers to a single
// NodeManager into a single connection
}
}
};
eventDispatcherThread.setName("Container Event Dispatcher");
eventDispatcherThread.setDaemon(false);
eventDispatcherThread.start();

super.serviceStart();

@Override
protected void serviceStop() throws Exception {
    if (stopped.getAndSet(true)) {
        // return if already stopped
        return;
    }
    if (eventDispatcherThread != null) {
        eventDispatcherThread.interrupt();
        try {
            eventDispatcherThread.join();
        } catch (InterruptedException e) {
            LOG.error("The thread of "+ eventDispatcherThread.getName() +
            " didn't finish normally.", e);
        }
    }
    if (threadPool != null) {
        threadPool.shutdownNow();
    }
    if (client != null) {
        // If NMClientImpl doesn't stop running containers, the states doesn't
        // need to be cleared.
        if (!(client instanceof NMClientImpl) ||
            ((NMClientImpl) client).getCleanupRunningContainers().get()) {
            if (containers != null) {
                containers.clear();
            }
        }
        client.stop();
    }
    super.serviceStop();
}
public void startContainerAsync(
    Container container, ContainerLaunchContext containerLaunchContext) {
    if (containers.putIfAbsent(container.getId(),
            new StatefulContainer(this, container.getId())) != null) {
        callbackHandler.onStartContainerError(container.getId(),
            RPCUtil.getRemoteException("Container " + container.getId() + " is already started or scheduled to start"));
    }
    try {
        events.put(new StartContainerEvent(container, containerLaunchContext));
    } catch (InterruptedException e) {
        LOG.warn("Exception when scheduling the event of starting Container " +
            container.getId());
        callbackHandler.onStartContainerError(container.getId(), e);
    }
}

public void stopContainerAsync(ContainerId containerId, NodeId nodeId) {
    if (containers.get(containerId) == null) {
        callbackHandler.onStopContainerError(containerId,
            RPCUtil.getRemoteException("Container " + containerId + " is neither started nor scheduled to start"));
    }
    try {
        events.put(new ContainerEvent(containerId, nodeId, null,
                ContainerEventType.STOP_CONTAINER));
    } catch (InterruptedException e) {
        LOG.warn("Exception when scheduling the event of stopping Container " +
            containerId);
        callbackHandler.onStopContainerError(containerId, e);
    }
}

public void getContainerStatusAsync(ContainerId containerId, NodeId nodeId) {
    try {
        events.put(new ContainerEvent(containerId, nodeId, null,
                ContainerEventType.QUERY_CONTAINER));
    } catch (InterruptedException e) {
        LOG.warn("Exception when scheduling the event of querying the status" +
            " of Container " + containerId);
        callbackHandler.onGetContainerStatusError(containerId, e);
    }
}

protected static enum ContainerState {
    PREP, FAILED, RUNNING, DONE,
protected boolean isCompletelyDone(StatefulContainer container) {
    return container.getState() == ContainerState.DONE ||
           container.getState() == ContainerState.FAILED;
}

protected ContainerEventProcessor getContainerEventProcessor(ContainerEvent event) {
    return new ContainerEventProcessor(event);
}

/**
 * The type of the event of interacting with a container
 */
protected static enum ContainerEventType {
    START_CONTAINER,
    STOP_CONTAINER,
    QUERY_CONTAINER
}

protected static class ContainerEvent extends AbstractEvent<ContainerEventType> {
    private ContainerId containerId;
    private NodeId nodeId;
    private Token containerToken;

    public ContainerEvent(ContainerId containerId, NodeId nodeId,
                           Token containerToken, ContainerEventType type) {
        super(type);
        this.containerId = containerId;
        this.nodeId = nodeId;
        this.containerToken = containerToken;
    }

    public ContainerId getContainerId() {
        return containerId;
    }

    public NodeId getNodeId() {
        return nodeId;
    }

    public Token getContainerToken() {
        return containerToken;
    }
}

protected static class StartContainerEvent extends ContainerEvent {
private Container container;
private ContainerLaunchContext containerLaunchContext;

public StartContainerEvent(Container container, ContainerLaunchContext containerLaunchContext) {
    super(container.getId(), container.getNodeId(),
    container.getContainerToken(), ContainerEventType.START_CONTAINER);
    this.container = container;
    this.containerLaunchContext = containerLaunchContext;
}

public Container getContainer() {
    return container;
}

public ContainerLaunchContext getContainerLaunchContext() {
    return containerLaunchContext;
}

protected static class StatefulContainer implements EventHandler<ContainerEvent> {

    protected final static StateMachineFactory<StatefulContainer,
    ContainerState, ContainerEventType, ContainerEvent> stateMachineFactory
    = new StateMachineFactory<StatefulContainer, ContainerState,
    ContainerEventType, ContainerEvent>(ContainerState.PREP)

    // Transitions from PREP state
    .addTransition(ContainerState.PREP,
    EnumSet.of(ContainerState.RUNNING, ContainerState.FAILED),
    ContainerEventType.START_CONTAINER,
    new StartContainerTransition())
    .addTransition(ContainerState.PREP, ContainerState.DONE,
    ContainerEventType.STOP_CONTAINER, new OutOfOrderTransition())

    // Transitions from RUNNING state
    // RUNNING -> RUNNING should be the invalid transition
    .addTransition(ContainerState.RUNNING,
    EnumSet.of(ContainerState.DONE, ContainerState.FAILED),
    ContainerEventType.STOP_CONTAINER,
    new StopContainerTransition())

    // Transition from DONE state
    .addTransition(ContainerState.DONE, ContainerState.DONE,
    EnumSet.of(ContainerEventType.START_CONTAINER,
    ContainerEventType.STOP_CONTAINER))
// Transition from FAILED state
.addTransition(ContainerState.FAILED, ContainerState.FAILED,
   EnumSet.of(ContainerEventType.START_CONTAINER,
   ContainerEventType.STOP_CONTAINER));

protected static class StartContainerTransition implements
   MultipleArcTransition<StatefulContainer, ContainerEvent,
   ContainerState> {

   @Override
   public ContainerState transition(
      StatefulContainer container, ContainerEvent event) {  
      ContainerId containerId = event.getContainerId();
      try {
         StartContainerEvent scEvent = null;
         if (event instanceof StartContainerEvent) {
            scEvent = (StartContainerEvent) event;
         }
         assert scEvent != null;
         Map<String, ByteBuffer> allServiceResponse =
            container.nmClientAsync.getClient().startContainer(
               scEvent.getContainer(), scEvent.getContainerLaunchContext());
         try {
            container.nmClientAsync.getCallbackHandler().onContainerStarted(
               containerId, allServiceResponse);
         } catch (Throwable thr) {
            // Don't process user created unchecked exception
            LOG.info("Unchecked exception is thrown from onContainerStarted for ",
               + "Container " + containerId, thr);
         }
         return ContainerState.RUNNING;
      } catch (YarnException e) {
         return onExceptionRaised(container, event, e);
      } catch (IOException e) {
         return onExceptionRaised(container, event, e);
      } catch (Throwable t) {
         return onExceptionRaised(container, event, t);
      }
   }

   private ContainerState onExceptionRaised(StatefulContainer container,
      ContainerEvent event, Throwable t) {
      try {
         container.nmClientAsync.getCallbackHandler().onStartContainerError(
            event.getContainerId(), t);
      } catch (Throwable thr) {
         // Don't process user created unchecked exception
         LOG.info("Unexpected exception is thrown from onStatefulContainerError for ",
            + "Container " + event.getContainerId(), thr);
      }
   }

```
"Unchecked exception is thrown from onStartContainerError for " +
"Container " + event.getContainerId(), thr);
}
return ContainerState.FAILED;
}

protected static class StopContainerTransition implements
  MultipleArcTransition<StatefulContainer, ContainerEvent,
  ContainerState> {

@Override
public ContainerState transition(
  StatefulContainer container, ContainerEvent event) {
  ContainerId containerId = event.getContainerId();
  try {
    container.nmClientAsync.getClient().stopContainer(
      containerId, event.getNodeId());
    try {
      container.nmClientAsync.getCallbackHandler().onContainerStopped(
        event.getContainerId());
    } catch (Throwable thr) {
      // Don't process user created unchecked exception
      LOG.info("Unchecked exception is thrown from onContainerStopped for " +
        "Container " + event.getContainerId(), thr);
    }
    return ContainerState.DONE;
  } catch (YarnException e) {
    return onExceptionRaised(container, event, e);
  } catch (IOException e) {
    return onExceptionRaised(container, event, e);
  } catch (Throwable t) {
    return onExceptionRaised(container, event, t);
  }
}

private ContainerState onExceptionRaised(StatefulContainer container,
  ContainerEvent event, Throwable t) {
  try {
    container.nmClientAsync.getCallbackHandler().onStopContainerError(
      event.getContainerId(), t);
  } catch (Throwable thr) {
    // Don't process user created unchecked exception
    LOG.info("Unchecked exception is thrown from onStopContainerError for " +
      "Container " + event.getContainerId(), thr);
  }
  return ContainerState.FAILED;
}
protected static class OutOfOrderTransition implements SingleArcTransition<StatefulContainer, ContainerEvent> {

protected static final String STOP_BEFORE_START_ERROR_MSG =
"Container was killed before it was launched";

@Override
public void transition(StatefulContainer container, ContainerEvent event) {
try {
    container.nmClientAsync.getCallbackHandler().onStartContainerError(
        event.getContainerId(),
        RPCUtil.getRemoteException(STOP_BEFORE_START_ERROR_MSG));
} catch (Throwable thr) {
    // Don't process user created unchecked exception
    LOG.info(
        "Unchecked exception is thrown from onStartContainerError for " +
        "Container " + event.getContainerId(), thr);
}
}

private final NMClientAsync nmClientAsync;
private final ContainerId containerId;
private final StateMachine<ContainerState, ContainerEventType, ContainerEvent> stateMachine;
private final ReadLock readLock;
private final WriteLock writeLock;

public StatefulContainer(NMClientAsync client, ContainerId containerId) {
    this.nmClientAsync = client;
    this.containerId = containerId;
    stateMachine = stateMachineFactory.make(this);
    ReentrantReadWriteLock lock = new ReentrantReadWriteLock();
    readLock = lock.readLock();
    writeLock = lock.writeLock();
}

@Override
public void handle(ContainerEvent event) {
writeLock.lock();
try {
    try {
        this.stateMachine.doTransition(event.getType(), event);
    } catch (InvalidStateTransitionException e) {
        LOG.error("Can't handle this event at current state", e);
    }
}}
public ContainerId getContainerId() {
    return containerId;
}

public ContainerState getState() {
    readLock.lock();
    try {
        return stateMachine.getCurrentState();
    } finally {
        readLock.unlock();
    }
}

protected class ContainerEventProcessor implements Runnable {
    protected ContainerEvent event;

    public ContainerEventProcessor(ContainerEvent event) {
        this.event = event;
    }

    @Override
    public void run() {
        ContainerId containerId = event.getContainerId();
        LOG.info("Processing Event " + event + " for Container " + containerId);
        if (event.getType() == ContainerEventType.QUERY_CONTAINER) {
            try {
                ContainerStatus containerStatus = client.getContainerStatus(
                    containerId, event.getNodeId());
                try {
                    callbackHandler.onContainerStatusReceived(
                        containerId, containerStatus);
                } catch (Throwable thr) {
                    // Don't process user created unchecked exception
                    LOG.info(
                        "Unchecked exception is thrown from onContainerStatusReceived" +
                        " for Container " + event.getContainerId(), thr);
                }
            } catch (YarnException e) {
                onExceptionRaised(containerId, e);
            } catch (IOException e) {
                onExceptionRaised(containerId, e);
            } catch (Throwable t) {
                
            }
        } else {
            LOG.info("Received event type " + event.getType());
        }
    }
}
onExceptionRaised(containerId, t);
}
} else {
    StatefulContainer container = containers.get(containerId);
    if (container == null) {
        LOG.info("Container " + containerId + " is already stopped or failed");
    } else {
        container.handle(event);
        if (isCompletelyDone(container)) {
            containers.remove(containerId);
        }
    }
}

private void onExceptionRaised(ContainerId containerId, Throwable t) {
    try {
        callbackHandler.onGetContainerStatusError(containerId, t);
    } catch (Throwable thr) {
        // Don't process user created unchecked exception
        LOG.info("Unchecked exception is thrown from onGetContainerStatusError" +
                " for Container " + containerId, thr);
    }
}

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 */

package org.apache.hadoop.yarn.client.api.async.impl;

import java.io.IOException;

import java.io.IOException;
import java.util.Collection;
import java.util.List;
import java.util.concurrentBlockingQueue;
import java.util.concurrent.LinkedBlockingQueue;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterResponse;
import org.apache.hadoop.yarn.api.records.AMCommand;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.FinalApplicationStatus;
import org.apache.hadoop.yarn.api.records.Priority;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.client.api.AMRMClient;
import org.apache.hadoop.yarn.client.api.AMRMClientAsync;
import org.apache.hadoop.yarn.client.api.impl.AMRMClientImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import com.google.common.annotations.VisibleForTesting;
@Private
@Unstable
public class AMRMClientAsyncImpl<T extends ContainerRequest>
extends AMRMClientAsync<T> {

private static final Log LOG = LogFactory.getLog(AMRMClientAsyncImpl.class);

private final HeartbeatThread heartbeatThread;
private final CallbackThread handlerThread;
private final BlockingQueue AllocateResponse responseQueue;
private final Object unregisterHeartbeatLock = new Object();
private volatile boolean keepRunning;
private volatile float progress;
private volatile Throwable savedException;

public AMRMClientAsyncImpl(int intervalMs, CallbackHandler callbackHandler) {
    this(new AMRMClientImpl<T>(), intervalMs, callbackHandler);
}

@Private
@VisibleForTesting
public AMRMClientAsyncImpl(AMRMClient<T> client, int intervalMs,
CallbackHandler callbackHandler) {
    super(client, intervalMs, callbackHandler);
    heartbeatThread = new HeartbeatThread();
    handlerThread = new CallbackHandlerThread();
    responseQueue = new LinkedBlockingQueue<AllocateResponse>();
    keepRunning = true;
    savedException = null;
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    super.serviceInit(conf);
    client.init(conf);
}

@Override
protected void serviceStart() throws Exception {
    handlerThread.setDaemon(true);
    handlerThread.start();
    client.start();
    super.serviceStart();
}

/**
* Tells the heartbeat and handler threads to stop and waits for them to
* terminate.
*/
@Override
protected void serviceStop() throws Exception {
    keepRunning = false;
    heartbeatThread.interrupt();
    try {
        heartbeatThread.join();
    } catch (InterruptedException ex) {
        LOG.error("Error joining with heartbeat thread", ex);
    }
    client.stop();
    handlerThread.interrupt();
    super.serviceStop();
}
public void setHeartbeatInterval(int interval) {
    heartbeatIntervalMs.set(interval);
}

public List<? extends Collection<T>> getMatchingRequests(
    Priority priority,
    String resourceName,
    Resource capability) {
    return client.getMatchingRequests(priority, resourceName, capability);
}

/**
 * Registers this application master with the resource manager. On successful
 * registration, starts the heartbeating thread.
 * @throws YarnException
 * @throws IOException
 */
public RegisterApplicationMasterResponse registerApplicationMaster(
    String appHostName, int appHostPort, String appTrackingUrl)
    throws YarnException, IOException {
    RegisterApplicationMasterResponse response = client
        .registerApplicationMaster(appHostName, appHostPort, appTrackingUrl);
    heartbeatThread.start();
    return response;
}

/**
 * Unregister the application master. This must be called in the end.
 * @param appStatus Success/Failure status of the master
 * @param appMessage Diagnostics message on failure
 * @param appTrackingUrl New URL to get master info
 * @throws YarnException
 * @throws IOException
 */
public void unregisterApplicationMaster(FinalApplicationStatus appStatus,
    String appMessage, String appTrackingUrl) throws YarnException,
    IOException {
    synchronized (unregisterHeartbeatLock) {
        keepRunning = false;
        client.unregisterApplicationMaster(appStatus, appMessage, appTrackingUrl);
    }
}

/**
 * Request containers for resources before calling <code>allocate</code>
 * @param req Resource request
 */
public void addContainerRequest(T req) {
client.addContainerRequest(req);
}

/**
 * Remove previous container request. The previous container request may have
 * already been sent to the ResourceManager. So even after the remove request
 * the app must be prepared to receive an allocation for the previous request
 * even after the remove request
 * @param req Resource request
 */
public void removeContainerRequest(T req) {
    client.removeContainerRequest(req);
}

/**
 * Release containers assigned by the Resource Manager. If the app cannot use
 * the container or wants to give up the container then it can release them.
 * The app needs to make new requests for the released resource capability if
 * it still needs it. eg. it released non-local resources
 * @param containerId
 */
public void releaseAssignedContainer(ContainerId containerId) {
    client.releaseAssignedContainer(containerId);
}

/**
 * Get the currently available resources in the cluster.
 * A valid value is available after a call to allocate has been made
 * @return Currently available resources
 */
public Resource getAvailableResources() {
    return client.getAvailableResources();
}

/**
 * Get the current number of nodes in the cluster.
 * A valid values is available after a call to allocate has been made
 * @return Current number of nodes in the cluster
 */
public int getClusterNodeCount() {
    return client.getClusterNodeCount();
}

private class HeartbeatThread extends Thread {
    public HeartbeatThread() {
        super("AMRM Heartbeater thread");
    }
}
public void run() {
    while (true) {
        AllocateResponse response = null;
        // synchronization ensures we don't send heartbeats after unregistering
        synchronized (unregisterHeartbeatLock) {
            if (!keepRunning) {
                return;
            }

            try {
                response = client.allocate(progress);
            } catch (Throwable ex) {
                LOG.error("Exception on heartbeat", ex);
                savedException = ex;
                // interrupt handler thread in case it waiting on the queue
                handlerThread.interrupt();
                return;
            }
        }

        if (response != null) {
            while (true) {
                try {
                    responseQueue.put(response);
                    if (response.getAMCommand() == AMCommand.AM_RESYNC
                        || response.getAMCommand() == AMCommand.AM_SHUTDOWN) {
                        return;
                    }
                } catch (InterruptedException ex) {
                    LOG.info("Interrupted while waiting to put on response queue", ex);
                }
            }
        }

        try {
            Thread.sleep(heartbeatIntervalMs.get());
        } catch (InterruptedException ex) {
            LOG.info("Heartbeater interrupted", ex);
        }
    }
}

private class CallbackHandlerThread extends Thread {
    public CallbackHandlerThread() {
        super("AMRM Callback Handler Thread");
    }
}
public void run() {
    while (true) {
        if (!keepRunning) {
            return;
        }
    }
    try {
        AllocateResponse response;
        if (savedException != null) {
            LOG.error("Stopping callback due to: ", savedException);
            handler.onError(savedException);
            return;
        }
        try {
            response = responseQueue.take();
        } catch (InterruptedException ex) {
            LOG.info("Interrupted while waiting for queue", ex);
            continue;
        }
        if (response.getAMCommand() != null) {
            switch(response.getAMCommand()) {
                case AM_RESYNC:
                case AM_SHUTDOWN:
                    handler.onShutdownRequest();
                    LOG.info("Shutdown requested. Stopping callback.");
                    return;
                default:
                    String msg =
                        "Unhandled value of RM AMCommand: " + response.getAMCommand();
                    LOG.error(msg);
                    throw new YarnRuntimeException(msg);
            }
        }
        List<NodeReport> updatedNodes = response.getUpdatedNodes();
        if (!updatedNodes.isEmpty()) {
            handler.onNodesUpdated(updatedNodes);
        }
        List<ContainerStatus> completed =
            response.getCompletedContainersStatuses();
        if (!completed.isEmpty()) {
            handler.onContainersCompleted(completed);
        }
        List<Container> allocated = response.getAllocatedContainers();
        if (!allocated.isEmpty()) {
            handler.onContainersAllocated(allocated);
        }
    }
}
progress = handler.getProgress();
} catch (Throwable ex) {
    handler.onError(ex);
    // re-throw exception to end the thread
    throw new YarnRuntimeException(ex);
}

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 */

package org.apache.hadoop.yarn.client.api.impl;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.SortedMap;
import java.util.TreeMap;
import java.util.TreeSet;
import org.apache.commons.logging.Log;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.SortedMap;
import java.util.TreeMap;
import java.util.TreeSet;
import org.apache.commons.logging.Log;

import org.apache.commons.logging.Log;

import org.apache.commons.logging.Log;
protected final Set<String> blacklistRemovals = new HashSet<String>();

class ResourceRequestInfo {
    ResourceRequest remoteRequest;
    LinkedHashSet<T> containerRequests;

    ResourceRequestInfo(Priority priority, String resourceName,
                    Resource capability, boolean relaxLocality) {
        remoteRequest = ResourceRequest.newInstance(priority, resourceName,
                                                  capability, 0);
        remoteRequest.setRelaxLocality(relaxLocality);
        containerRequests = new LinkedHashSet<T>();
    }
}

/**
 * Class compares Resource by memory then cpu in reverse order
 */
class ResourceReverseMemoryThenCpuComparator implements Comparator<Resource> {
    @Override
    public int compare(Resource arg0, Resource arg1) {
        int mem0 = arg0.getMemory();
        int mem1 = arg1.getMemory();
        int cpu0 = arg0.getVirtualCores();
        int cpu1 = arg1.getVirtualCores();
        if(mem0 == mem1) {
            if(cpu0 == cpu1) {
                return 0;
            }
            if(cpu0 < cpu1) {
                return 1;
            }
            return -1;
        }
        if(mem0 < mem1) {
            return 1;
        }
        return -1;
    }
}

static boolean canFit(Resource arg0, Resource arg1) {
    int mem0 = arg0.getMemory();
    int mem1 = arg1.getMemory();
    int cpu0 = arg0.getVirtualCores();
    int cpu1 = arg1.getVirtualCores();
if(mem0 <= mem1 && cpu0 <= cpu1) {
    return true;
} else {
    return false;
}

//Key -> Priority
//Value -> Map
//Key->ResourceName (e.g., nodename, rackname, *)
//Value->Map
//Key->Resource Capability
//Value->ResourceRequest
protected final Map<Priority, Map<String, TreeMap<Resource, ResourceRequestInfo>>> remoteRequestsTable =
    new TreeMap<Priority, Map<String, TreeMap<Resource, ResourceRequestInfo>>>();

protected final Set<ResourceRequest> ask = new TreeSet<ResourceRequest>(

protected final Set<ContainerId> release = new TreeSet<ContainerId>();

public AMRMClientImpl() {
    super(AMRMClientImpl.class.getName());
}

@override
protected void serviceInit(Configuration conf) throws Exception {
    RackResolver.init(conf);
    super.serviceInit(conf);
}

@override
protected void serviceStart() throws Exception {
    final YarnConfiguration conf = new YarnConfiguration(getConfig());
    try {
        rmClient =
            ClientRMProxy.createRMProxy(conf, ApplicationMasterProtocol.class);
    } catch (IOException e) {
        throw new YarnRuntimeException(e);
    }
    super.serviceStart();
}

@override
protected void serviceStop() throws Exception {
    if (this.rmClient != null) {
        RPC.stopProxy(this.rmClient);
    }
}
super.serviceStop();
}

@Override
public RegisterApplicationMasterResponse registerApplicationMaster(
    String appHostName, int appHostPort, String appTrackingUrl)
throws YarnException, IOException {
    Preconditions.checkArgument(appHostName != null,
        "The host name should not be null");
    Preconditions.checkArgument(appHostPort >= -1, "Port number of the host" + " should be any integers larger than or equal to -1");
    // do this only once ???
    RegisterApplicationMasterRequest request =
            RegisterApplicationMasterRequest.newInstance(appHostName, appHostPort, appTrackingUrl);
    RegisterApplicationMasterResponse response =
            rmClient.registerApplicationMaster(request);
    return response;
}

@Override
public AllocateResponse allocate(float progressIndicator)
throws YarnException, IOException {
    Preconditions.checkArgument(progressIndicator >= 0,
        "Progress indicator should not be negative");
    AllocateResponse allocateResponse = null;
    List<ResourceRequest> askList = null;
    List<ContainerId> releaseList = null;
    AllocateRequest allocateRequest = null;
    List<String> blacklistToAdd = new ArrayList<String> ();
    List<String> blacklistToRemove = new ArrayList<String> ();
    try {
        synchronized (this) {
            askList = new ArrayList<ResourceRequest>(ask.size());
            for (ResourceRequest r : ask) {
                // create a copy of ResourceRequest as we might change it while the
                // RPC layer is using it to send info across
                askList.add(ResourceRequest.newInstance(r.getPriority(),
                        r.getResourceName(), r.getCapability(), r.getNumContainers(),
                        r.getRelaxLocality()));
            }
            releaseList = new ArrayList<ContainerId>(release);
            // optimistically clear this collection assuming no RPC failure
            ask.clear();
            release.clear();
            blacklistToAdd.addAll(blacklistAdditions);
        }
    } catch (Exception e) {}
blacklistToRemove.addAll(blacklistRemovals);

ResourceBlacklistRequest blacklistRequest =
    (blacklistToAdd != null) || (blacklistToRemove != null) ?
    ResourceBlacklistRequest.newInstance(blacklistToAdd,
        blacklistToRemove) : null;

allocateRequest =
    AllocateRequest.newInstance(lastResponseId, progressIndicator,
        askList, releaseList, blacklistRequest);
// clear blacklistAdditions and blacklistRemovals before
// unsynchronized part
blacklistAdditions.clear();
blacklistRemovals.clear();
}

allocateResponse = rmClient.allocate(allocateRequest);

synchronized (this) {
    // update these on successful RPC
    clusterNodeCount = allocateResponse.getNumClusterNodes();
    lastResponseId = allocateResponse.getResponseId();
    clusterAvailableResources = allocateResponse.getAvailableResources();
    if (!allocateResponse.getNMTokens().isEmpty()) {
        populateNMTokens(allocateResponse);
    }
}

finally {
    // TODO how to differentiate remote yarn exception vs error in rpc
    if (allocateResponse == null) {
        // we hit an exception in allocate()
        // preserve ask and release for next call to allocate()
        synchronized (this) {
            release.addAll(releaseList);
            // requests could have been added or deleted during call to allocate
            // If requests were added/removed then there is nothing to do since
            // the ResourceRequest object in ask would have the actual new value.
            // If ask does not have this ResourceRequest then it was unchanged and
            // so we can add the value back safely.
            // This assumes that there will no concurrent calls to allocate() and
            // so we dont have to worry about ask being changed in the
            // synchronized block at the beginning of this method.
            for (ResourceRequest oldAsk : askList) {
                if (!ask.contains(oldAsk)) {
                    ask.add(oldAsk);
                }
            }
        }
    }
}
blacklistAdditions.addAll(blacklistToAdd);
blacklistRemovals.addAll(blacklistToRemove);
}
}
return allocateResponse;
}

@Private
@VisibleForTesting
protected void populateNMTokens(AllocateResponse allocateResponse) {
  for (NMToken token : allocateResponse.getNMTokens()) {
    String nodeId = token.getNodeId().toString();
    if (NMTokenCache.containsNMToken(nodeId)) {
      LOG.debug("Replacing token for : " + nodeId);
    } else {
      LOG.debug("Received new token for : " + nodeId);
    }
    NMTokenCache.setNMToken(nodeId, token.getToken());
  }
}

@Override
public void unregisterApplicationMaster(FinalApplicationStatus appStatus,
  String appMessage, String appTrackingUrl) throws YarnException,
IOException {
  Preconditions.checkArgument(appStatus != null,
    "AppStatus should not be null.");
  FinishApplicationMasterRequest request =
    FinishApplicationMasterRequest.newInstance(appStatus, appMessage,
    appTrackingUrl);
  try {
    while (true) {
      FinishApplicationMasterResponse response =
        rmClient.finishApplicationMaster(request);
      if (response.getIsUnregistered()) {
        break;
      }
      LOG.info("Waiting for application to be successfully unregistered.");
      Thread.sleep(100);
    }
  } catch (InterruptedException e) {
    LOG.info("Interrupted while waiting for application" + " to be removed from RMStateStore");
  }
}

@override
public synchronized void addContainerRequest(T req) {
    Preconditions.checkArgument(req != null,
        "Resource request can not be null.");
    Set<String> dedupedRacks = new HashSet<String>();
    if (req.getRacks() != null) {
        dedupedRacks.addAll(req.getRacks());
        if(req.getRacks().size() != dedupedRacks.size()) {
            Joiner joiner = Joiner.on(',');
            LOG.warn("ContainerRequest has duplicate racks: 
                + joiner.join(req.getRacks())");
        }
    }
    Set<String> inferredRacks = resolveRacks(req.getNodes());
    inferredRacks.removeAll(dedupedRacks);
    // check that specific and non-specific requests cannot be mixed within a
    // priority
    checkLocalityRelaxationConflict(req.getPriority(), ANY_LIST,
        req.getRelaxLocality());
    // check that specific rack cannot be mixed with specific node within a
    // priority. If node and its rack are both specified then they must be
    // in the same request.
    // For explicitly requested racks, we set locality relaxation to true
    checkLocalityRelaxationConflict(req.getPriority(), dedupedRacks, true);
    checkLocalityRelaxationConflict(req.getPriority(), inferredRacks,
        req.getRelaxLocality());
    }
    if (req.getNodes() != null) {
        HashSet<String> dedupedNodes = new HashSet<String>(req.getNodes());
        if(dedupedNodes.size() != req.getNodes().size()) {
            Joiner joiner = Joiner.on(' '); 
            LOG.warn("ContainerRequest has duplicate nodes: 
                + joiner.join(req.getNodes())");
        }
        for (String node : dedupedNodes) {
            addResourceRequest(req.getPriority(), node, req.getCapability(), req, true);
        }
    }
    for (String rack : dedupedRacks) {
        addResourceRequest(req.getPriority(), rack, req.getCapability(), req, true);
    }
    // Ensure node requests are accompanied by requests for
    // corresponding rack
    for (String rack : inferredRacks) {
addResourceRequest(req.getPriority(), rack, req.getCapability(), req, req.getRelaxLocality());
}

// Off-switch
addResourceRequest(req.getPriority(), ResourceRequest.ANY, req.getCapability(), req, req.getRelaxLocality());

@Override
public synchronized void removeContainerRequest(T req) {
    Preconditions.checkNotNull(req != null, "Resource request can not be null.");
    Set<String> allRacks = new HashSet<String>();
    if (req.getRacks() != null) {
        allRacks.addAll(req.getRacks());
    }
    allRacks.addAll(resolveRacks(req.getNodes()));

    // Update resource requests
    if (req.getNodes() != null) {
        for (String node : new HashSet<String>(req.getNodes())) {
            decResourceRequest(req.getPriority(), node, req.getCapability(), req);
        }
    }
    for (String rack : allRacks) {
        decResourceRequest(req.getPriority(), rack, req.getCapability(), req);
    }
    decResourceRequest(req.getPriority(), ResourceRequest.ANY, req.getCapability(), req);
}

@Override
public synchronized void releaseAssignedContainer(ContainerId containerId) {
    Preconditions.checkNotNull(containerId != null, "ContainerId can not be null.");
    release.add(containerId);
}

@Override
public synchronized Resource getAvailableResources() {
    return clusterAvailableResources;
}

@Override
public synchronized int getClusterNodeCount() {

return clusterNodeCount;
}

@Override
public synchronized List<? extends Collection<T>> getMatchingRequests(
    Priority priority,
    String resourceName,
    Resource capability) {
Preconditions.checkNotNull(capability, 
    "The Resource to be requested should not be null ");
Preconditions.checkNotNull(priority, 
    "The priority at which to request containers should not be null ");
List<LinkedHashSet<T>> list = new LinkedList<LinkedHashSet<T>>();
Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =
    this.remoteRequestsTable.get(priority);
if (remoteRequests == null) {
    return list;
    }
TreeMap<Resource, ResourceRequestInfo> reqMap = remoteRequests
    .get(resourceName);
if (reqMap == null) {
    return list;
    }
ResourceRequestInfo resourceRequestInfo = reqMap.get(capability);
if (resourceRequestInfo != null &&
    !resourceRequestInfo.containerRequests.isEmpty()) {
    list.add(resourceRequestInfo.containerRequests);
    return list;
    }
// no exact match. Container may be larger than what was requested.
// get all resources <= capability. map is reverse sorted.
SortedMap<Resource, ResourceRequestInfo> tailMap =
    reqMap.tailMap(capability);
for(Map.Entry<Resource, ResourceRequestInfo> entry : tailMap.entrySet()) {
    if (canFit(entry.getKey(), capability) &&
        !entry.getValue().containerRequests.isEmpty()) {
        // match found that fits in the larger resource
        list.add(entry.getValue().containerRequests);
    }
}
// no match found
return list;
}

private Set<String> resolveRacks(List<String> nodes) {

Set<String> racks = new HashSet<String>();
if (nodes != null) {
    for (String node : nodes) {
        String rack = RackResolver.resolve(node).getNetworkLocation();
        if (rack == null) {
            LOG.warn("Failed to resolve rack for node "+ node + ".");
        } else {
            racks.add(rack);
        }
    }
}
return racks;

/**
 * ContainerRequests with locality relaxation cannot be made at the same
 * priority as ContainerRequests without locality relaxation.
 */
private void checkLocalityRelaxationConflict(Priority priority,
        Collection<String> locations, boolean relaxLocality) {
    Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =
        this.remoteRequestsTable.get(priority);
    if (remoteRequests == null) {
        return;
    }
    // Locality relaxation will be set to relaxLocality for all implicitly
    // requested racks. Make sure that existing rack requests match this.
    for (String location : locations) {
        TreeMap<Resource, ResourceRequestInfo> reqs =
            remoteRequests.get(location);
        if (reqs != null && !reqs.isEmpty() && reqs.values().iterator().next().remoteRequest.getRelaxLocality() != relaxLocality) {
            throw new InvalidContainerRequestException("Cannot submit a 
                + "ContainerRequest asking for location "+ location
                + " with locality relaxation " + relaxLocality + " when it has "
                + "already been requested with locality relaxation " + relaxLocality);
        }
    }
}

private void addResourceRequestToAsk(ResourceRequest remoteRequest) {
    // This code looks weird but is needed because of the following scenario.
    // A ResourceRequest is removed from the remoteRequestTable. A 0 container
    // request is added to 'ask' to notify the RM about not needing it any more.
// Before the call to allocate, the user now requests more containers. If
// the locations of the 0 size request and the new request are the same
// (with the difference being only container count), then the set comparator
// will consider both to be the same and not add the new request to ask. So
// we need to check for the "same" request being present and remove it and
// then add it back. The comparator is container count agnostic.
// This should happen only rarely but we do need to guard against it.
if(ask.contains(remoteRequest)) {
    ask.remove(remoteRequest);
}
ask.add(remoteRequest);

private void addResourceRequest(Priority priority, String resourceName,
        Resource capability, T req, boolean relaxLocality) {
    Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =
        this.remoteRequestsTable.get(priority);
    if (remoteRequests == null) {
        remoteRequests =
            new HashMap<String, TreeMap<Resource, ResourceRequestInfo>>());
        this.remoteRequestsTable.put(priority, remoteRequests);
        if (LOG.isDebugEnabled()) {
            LOG.debug("Added priority=\" + priority);
        }
    }
    TreeMap<Resource, ResourceRequestInfo> reqMap =
        remoteRequests.get(resourceName);
    if (reqMap == null) {
        // capabilities are stored in reverse sorted order. smallest last.
        reqMap = new TreeMap<Resource, ResourceRequestInfo>(
            new ResourceReverseMemoryThenCpuComparator());
        remoteRequests.put(resourceName, reqMap);
    }
    ResourceRequestInfo resourceRequestInfo = reqMap.get(capability);
    if (resourceRequestInfo == null) {
        resourceRequestInfo =
            new ResourceRequestInfo(priority, resourceName, capability,
                relaxLocality);
        reqMap.put(capability, resourceRequestInfo);
    }
    resourceRequestInfo.remoteRequest.setNumContainers(
        resourceRequestInfo.remoteRequest.getNumContainers() + 1);
    if (relaxLocality) {
        resourceRequestInfo.containerRequests.add(req);
    }
}
// Note this down for next interaction with ResourceManager
addResourceRequestToAsk(resourceRequestInfo.remoteRequest);

if (LOG.isDebugEnabled()) {
    LOG.debug("addResourceRequest:" + " applicationId="
        + " priority=" + priority.getPriority()
        + " resourceName=" + resourceName + " numContainers="
        + resourceRequestInfo.remoteRequest.getNumContainers()
        + " #asks=" + ask.size());
} }

private void decResourceRequest(Priority priority,
                              String resourceName,
                              Resource capability,
                              T req) {
    Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =
        this.remoteRequestsTable.get(priority);

    if(remoteRequests == null) {
        if (LOG.isDebugEnabled()) {
            LOG.debug("Not decrementing resource as priority " + priority
                + " is not present in request table");
        }
        return;
    }

    Map<Resource, ResourceRequestInfo> reqMap = remoteRequests.get(resourceName);
    if (reqMap == null) {
        if (LOG.isDebugEnabled()) {
            LOG.debug("Not decrementing resource as " + resourceName
                + " is not present in request table");
        }
        return;
    }

    ResourceRequestInfo resourceRequestInfo = reqMap.get(capability);
    if (LOG.isDebugEnabled()) {
        LOG.debug("BEFORE decResourceRequest:" + " applicationId="
            + " priority=" + priority.getPriority()
            + " resourceName=" + resourceName + " numContainers="
            + resourceRequestInfo.remoteRequest.getNumContainers()
            + " #asks=" + ask.size());
    }

    resourceRequestInfo.remoteRequest.setNumContainers(
        resourceRequestInfo.remoteRequest.getNumContainers() - 1);
}
resourceRequestInfo.containerRequests.remove(req);

if (resourceRequestInfo.remoteRequest.getNumContainers() < 0) {
    // guard against spurious removals
    resourceRequestInfo.remoteRequest.setNumContainers(0);
}

// send the ResourceRequest to RM even if is 0 because it needs to override
// a previously sent value. If ResourceRequest was not sent previously then
// sending 0 aught to be a no-op on RM
addResourceRequestToAsk(resourceRequestInfo.remoteRequest);

// delete entries from map if no longer needed
if (resourceRequestInfo.remoteRequest.getNumContainers() == 0) {
    reqMap.remove(capability);
    if (reqMap.size() == 0) {
        remoteRequests.remove(resourceName);
    }
    if (remoteRequests.size() == 0) {
        remoteRequestsTable.remove(priority);
    }
}

if (LOG.isDebugEnabled()) {
    LOG.info("AFTER decResourceRequest: " + " applicationId="
    + " priority=" + priority.getPriority()
    + " resourceName=" + resourceName + " numContainers="
    + resourceRequestInfo.remoteRequest.getNumContainers()
    + " #asks=" + ask.size());
}

@Override
public synchronized void updateBlacklist(List<String> blacklistAdditions,
        List<String> blacklistRemovals) {

    if (blacklistAdditions != null) {
        this.blacklistAdditions.addAll(blacklistAdditions);
        // if some resources are also in blacklistRemovals updated before, we
        // should remove them here.
        this.blacklistRemovals.removeAll(blacklistAdditions);
    }

    if (blacklistRemovals != null) {
        this.blacklistRemovals.addAll(blacklistRemovals);
        // if some resources are in blacklistAdditions before, we should remove
        // them here.
        this.blacklistAdditions.removeAll(blacklistRemovals);
    }
}
if (blacklistAdditions != null && blacklistRemovals != null
    && blacklistAdditions.removeAll(blacklistRemovals)) {
    // we allow resources to appear in addition list and removal list in the
    // same invocation of updateBlacklist(), but should get a warn here.
    LOG.warn("The same resources appear in both blacklistAdditions and " +
        "blacklistRemovals in updateBlacklist.");
}

package org.apache.hadoop.yarn.client.api.impl;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.atomic.AtomicBoolean;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.security.token.SecretManager.InvalidToken;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.ContainerState;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.client.api.NMClient
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;

/**
 * <p>
 * This class implements [@link NMClient]. All the APIs are blocking.
 * </p>
 *
 * <p>
 * By default, this client stops all the running containers that are started by
 * it when it stops. It can be disabled via
 * [@link cleanupRunningContainersOnStop], in which case containers will
 * continue to run even after this client is stopped and till the application
 * runs at which point ResourceManager will forcefully kill them.
 * </p>
 *
 * <p>
 * Note that the blocking APIs ensure the RPC calls to <code>NodeManager</code>
 * are executed immediately, and the responses are received before these APIs
 * return. However, when [@link #startContainer] or [@link #stopContainer]
 * returns, <code>NodeManager</code> may still need some time to either start
 * or stop the container because of its asynchronous implementation. Therefore,
 * [@link #getContainerStatus] is likely to return a transit container status
 * if it is executed immediately after [@link #startContainer] or
 * [@link #stopContainer].
 * </p>
 */

@Private
@Unstable
public class NMClientImpl extends NMClient {

private static final Log LOG = LogFactory.getLog(NMClientImpl.class);
// The logically coherent operations on startedContainers is synchronized to
// ensure they are atomic
protected ConcurrentHashMap<ContainerId, StartedContainer> startedContainers =
    new ConcurrentHashMap<ContainerId, StartedContainer>();

// enabled by default
private final AtomicBoolean cleanupRunningContainers = new AtomicBoolean(true);
private ContainerManagementProtocolProxy cmProxy;

public NMClientImpl() {
    super(NMClientImpl.class.getName());
}

public NMClientImpl(String name) {
    super(name);
}

@Override
protected void serviceStop() throws Exception {
    // Usually, started-containers are stopped when this client stops. Unless
    // the flag cleanupRunningContainers is set to false.
    if (getCleanupRunningContainers().get()) {
        cleanupRunningContainers();
    }
    cmProxy.stopAllProxies();
    super.serviceStop();
}

protected synchronized void cleanupRunningContainers() {
    for (StartedContainer startedContainer : startedContainers.values()) {
        try {
            stopContainer(startedContainer.getContainerId(),
            startedContainer.getNodeId());
        } catch (YarnException e) {
            LOG.error("Failed to stop Container " +
            startedContainer.getContainerId() +
            "when stopping NMClientImpl");
        } catch (IOException e) {
            LOG.error("Failed to stop Container " +
            startedContainer.getContainerId() +
            "when stopping NMClientImpl");
        }
    }
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    super.serviceInit(conf);
}
cmProxy = new ContainerManagementProtocolProxy(conf);
}

@Override
public void cleanupRunningContainersOnStop(boolean enabled) {
    getCleanupRunningContainers().set(enabled);
}

protected static class StartedContainer {
    private ContainerId containerId;
    private NodeId nodeId;
    private ContainerState state;

    public StartedContainer(ContainerId containerId, NodeId node
Id, Token containerToken) {
        this.containerId = containerId;
        this.nodeId = node
Id;
        state = ContainerState.NEW;
    }

    public ContainerId getContainerId() {
        return containerId;
    }

    public NodeId getNodeId() {
        return nodeId;
    }

    private void addStartingContainer(Started
Container started
an
cator) throws Yarn
Exception {
        if (startedContainers.putIfAbsent(started
Container.containerId,
        startedContainer) != null) {
            throw RPCUtil.getRemoteException("Container "
            + started
on.
cator.containerId.toString() + " is already started");
        }
        startedContainers
        .put(started
an.
cator.getContainerId(), started
an.
cator);
    }

    @Override
    public Map<String, ByteBuffer> startContainer(
        Container container, ContainerLaunchContext containerL
a
ng
Context) throws YarnException, IOException {

        // Do synchronization on StartedContainer to prevent race condition
        // between startContainer and stopContainer only when startContainer is
        // in progress for a given container.
StartedContainer startingContainer = createStartedContainer(container);
synchronized (startingContainer) {
    addStartingContainer(startingContainer);

    Map<String, ByteBuffer> allServiceResponse;
    ContainerManagementProtocolProxyData proxy = null;
    try {
        proxy =
            cmProxy.getProxy(container.getNodeId().toString(),
            container.getId());
        StartContainerRequest scRequest =
            StartContainerRequest.newInstance(containerLaunchContext,
            container.getContainerToken());
        List<StartContainerRequest> list = new ArrayList<StartContainerRequest>();
        list.add(scRequest);
        StartContainersRequest allRequests =
            StartContainersRequest.newInstance(list);
        StartContainersResponse response =
            proxy
            .getContainerManagementProtocol().startContainers(allRequests);
        if (response.getFailedRequests() != null
            && response.getFailedRequests().containsKey(container.getId())) {
            Throwable t =
                response.getFailedRequests().get(container.getId()).deSerialize();
            parseAndThrowException(t);
        }
        allServiceResponse = response.getAllServicesMetaData();
        startingContainer.state = ContainerState.RUNNING;
    } catch (YarnException e) {
        startingContainer.state = ContainerState.COMPLETE;
        // Remove the started container if it failed to start
        removeStartedContainer(startingContainer);
        throw e;
    } catch (IOException e) {
        startingContainer.state = ContainerState.COMPLETE;
        removeStartedContainer(startingContainer);
        throw e;
    } catch (Throwable t) {
        startingContainer.state = ContainerState.COMPLETE;
        removeStartedContainer(startingContainer);
        throw RPCUtil.getRemoteException(t);
    } finally {
        if (proxy != null) {
            cmProxy.maybeCloseProxy(proxy);
        }
    }

    return allServiceResponse;
}
@Override
public void stopContainer(ContainerId containerId, NodeId nodeId)
    throws YarnException, IOException {
    StartedContainer startedContainer = getStartedContainer(containerId);

    // Only allow one request of stopping the container to move forward
    // When entering the block, check whether the precursor has already stopped
    // the container
    if (startedContainer != null) {
        synchronized (startedContainer) {
            if (startedContainer.state != ContainerState.RUNNING) {
                return;
            }
            stopContainerInternal(containerId, nodeId);
            // Only after successful
            startedContainer.state = ContainerState.COMPLETE;
            removeStartedContainer(startedContainer);
        }
    } else {
        stopContainerInternal(containerId, nodeId);
    }
}

@Override
public ContainerStatus getContainerStatus(ContainerId containerId, NodeId nodeId)
    throws YarnException, IOException {

    ContainerManagementProtocolProxyData proxy = null;
    List<ContainerId> containerIds = new ArrayList<ContainerId>();
    containerIds.add(containerId);
    try {
        proxy = cmProxy.getProxy(nodeId.toString(), containerId);
        GetContainerStatusesResponse response =
            proxy.getContainerManagementProtocol().getContainerStatuses(
                GetContainerStatusesRequest.newInstance(containerIds));
        if (response.getFailedRequests() != null
            && response.getFailedRequests().containsKey(containerId)) {
            Throwable t =
                response.getFailedRequests().get(containerId).deSerialize();
            parseAndThrowException(t);
        }
        ContainerStatus containerStatus = response.getContainerStatuses().get(0);
        return containerStatus;
    } finally {
        if (proxy != null) {
            proxy.close();
        }
    }
}
private void stopContainerInternal(ContainerId containerId, NodeId nodeId) throws IOException, YarnException {
    ContainerManagementProtocolProxyData proxy = null;
    List<ContainerId> containerIds = new ArrayList<ContainerId>();
    containerIds.add(containerId);
    try {
        proxy = cmProxy.getProxy(nodeId.toString(), containerId);
        StopContainersResponse response =
            proxy.getContainerManagementProtocol().stopContainers(StopContainersRequest.newInstance(containerIds));
        if (response.getFailedRequests() != null
            && response.getFailedRequests().containsKey(containerId)) {
            Throwable t = response.getFailedRequests().get(containerId)
                .deSerialize();
            parseAndThrowException(t);
        }
    } finally {
        if (proxy != null) {
            cmProxy.mayBeCloseProxy(proxy);
        }
    }
}

protected synchronized StartedContainer createStartedContainer(Container container) throws YarnException, IOException {
    StartedContainer startedContainer = new StartedContainer(container.getId(),
        container.getNodeId(), container.getContainerToken());
    return startedContainer;
}

protected synchronized void removeStartedContainer(StartedContainer container) {
    startedContainers.remove(container.containerId);
}

protected synchronized StartedContainer getStartedContainer(ContainerId containerId) {
    return startedContainers.get(containerId);
}

public AtomicBoolean getCleanupRunningContainers() {
    return cleanupRunningContainers;
}
private void parseAndThrowException(Throwable t) throws YarnException, IOException {
    if (t instanceof YarnException) {
        throw (YarnException) t;
    } else if (t instanceof InvalidToken) {
        throw (InvalidToken) t;
    } else {
        throw (IOException) t;
    }
}

1.1686 snake-yaml 1.6

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Benali, Elias
Beverly, Jamie
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Boyce, Keith Garry
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Hayman, Randy M.
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Kadow, Kevin
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- Blttermann, Mario
- Bogusz, Jakub
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```
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```

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```
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Upstream-Name: keyutils
Upstream-Contact: David Howells <dhowells@redhat.com>
Source: http://people.redhat.com/~dhowells/keyutils/

Files: keyctl* request-key*
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1.1700 slf4j-log4j 1.7.21
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1.1701 quota 4.01 17.el7

1.1702 jbig-kit 2.0 2ubuntu4.1

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1.1709 node-combined-stream 0.0.5-1

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1.1710 pylint 1.1.0-1

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003
It is part of the main e2fsprogs distribution, which can be found at:

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$<

$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
$(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \ @-$(LDCONFIG)
install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$RM -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$RM -rf pic
$RM -f $(BSD_LIB)
$RM -f ../$(BSD_LIB)

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Theodore Ts'o
23-June-2007

-------------------------------------------------------------------------

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Gadi Oxman, August 1995

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/**
 * A <code>CopyingRangeMarker</code> can be used to track positions when executing text edits. Additionally a copying range marker stores a local copy of the text it captures when it gets executed.
 * @since 3.0
 */
public final class CopyingRangeMarker extends TextEdit {
    private String fText;

    /**
     * Creates a new <tt>CopyRangeMarker</tt> for the given offset and length.
     *
     * @param offset the marker's offset
     * @param length the marker's length
     */
    public CopyingRangeMarker(int offset, int length) {
        super(offset, length);
    }

    /**
     * Copy constructor
     */
    private CopyingRangeMarker(CopyingRangeMarker other) {
        super(other);
        fText= other.fText;
    }
}
protected TextEdit doCopy() {
    return new CopyingRangeMarker(this);
}

protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/* non Java-doc
* @see TextEdit#performDocumentUpdating
*/
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText= document.get(getOffset(), getLength());
    fDelta= 0;
    return fDelta;
}

/* non Java-doc
* @see TextEdit#deleteChildren
*/
/* package */ boolean deleteChildren() {
    return false;
}

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/* Style Definitions */
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

* cvt - IEEE floating point formatting routines.
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1.1731 libguestfs 1.38.2-12.el7_6.2

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(* virt-sparsify)

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(* This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

open Unix
open Printf

open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils

open Utils
open Cmdline

module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores machine_readable option tmp_param zeroes =

  (* Once we have got past argument parsing and start to create
temporary files (including the potentially massive overlay file), we
need to catch SIGINT (^C) and exit cleanly so the temporary file
goes away. Note that we don't delete temporaries in the signal
handler. *)

let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);
let output_format = match convert with
| Some fmt -> fmt (* user specified output conversion *)
| None ->
match format with
| Some fmt -> fmt (* user specified input format, use that *)
| None ->
(* Don’t know, so we must autodetect. *)
match (open_guestfs ()#disk_format indisk) with
| "unknown" ->
  error (f_"cannot detect input disk format; use the --format parameter")
| fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place = match tmp_param with
| None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
| Some dir when is_directory dir -> Directory dir
| Some dev when is_block_device dev -> Block_device dev
| Some file when String.is_prefix file "prebuilt:" ->
  let file = String.sub file 9 (String.length file - 9) in
  if not (Sys.file_exists file) then
    error (f_"--tmp prebuilt:file: %s: file does not exist") file;
  let g = open_guestfs () in
  if g#disk_format file <> "qcow2" then
    error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
  if not (g#disk_has_backing_file file) then
    error (f_"--tmp prebuilt:file: %s: file does not have backing file")
    file;
  Prebuilt_file file
| Some path ->
  error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
| Directory tmpdir ->
  (* Get virtual size of the input disk. *)
  let virtual_size = (open_guestfs ()#disk_virtual_size indisk in
debug "input disk virtual size is %Ld bytes (%s)"

*)
virtual_size (human_size virtual_size);

let print_warning () =  
  let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in  
  let extra_needed = virtual_size -.^ free_space in  
  if extra_needed > 0L then (    
    warning (f_""
    There may not be enough free space on %s.  
    You may need to set TMPDIR to point to a directory with more free space. 
    Max needed: %s.  Free: %s.  May need another %s. 
    Note this is an overestimate.  If the guest disk is full of data 
    then not as much free space would be required. 
    You can ignore this warning or change it to a hard failure using the 
    --check-tmpdir=(ignore|continue|warn|fail) option.  See virt-sparsify(1). 
    %!")
    tmpdir (human_size virtual_size) 
    (human_size free_space) (human_size extra_needed); 
    true 
  ) else false 

match check_tmpdir with  
| `Ignore -> ()  
| `Continue -> ignore (print_warning ())  
| `Warn ->  
  if print_warning () then (    
    eprintf "Press RETURN to continue or ^C to quit.\n%!"); 
    ignore (read_line ()) 
  );  
| `Fail ->  
  if print_warning () then (    
    eprintf "Exiting because --check-tmpdir=fail was set.\n%!"); 
    exit 2 
  ) 
); 

(* Create the temporary overlay file. *)
let overlaydisk =  
  (match tmp_place with  
    | Directory tmpdir ->    
      message (f_"Create overlay file in %s to protect source disk") tmpdir    
    | Block_device device ->    
      message (f_"Create overlay device %s to protect source disk") device    
    | Prebuilt_file file -> 
  )
message (f_"Using prebuilt file %s as overlay") file
);

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
  g#disk_create
  ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one
in

match tmp_place with
| Directory temp_dir ->
  let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
  unlink_on_exit tmp;
  create tmp;
  tmp

| Block_device device ->
  create device;
  device

| Prebuilt_file file ->
  (* Don't create anything, use the prebuilt file as overlay. *)
  file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g:
g#launch ();

g in

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (
  fun (fs, fstype) ->
  fstype = "btrfs"
) filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is Readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false
in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L
in

List.iter (fun fs ->
  if not (is_ignored fs) && not (is_read_only_lv fs) then (if List.mem fs zeroes then (message (f_"Zeroing %s") fs;
    g#zero_device fs)
  else (}
let mounted =
try g#mount fs "/"; true
with _ -> false in

if mounted then (
if is_readonly_btrfs_snapshot fs "/") then (  
  info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
) else if is_readonly_device "/") then (  
  info (f_"Skipping %s, as it is a read-only device.") fs;
) else (  
    message (f_"Fill free space in %s with zero") fs;
    g#zero_free_space "/
  )
) else (  
  let is_linux_x86_swap =
    (* Look for the signature for Linux swap on i386.  
    * Location depends on page size, so it definitely won't
    * work on non-x86 architectures (eg. on PPC, page size is
    * 64K). Also this avoids hibernated swap space: in those,
    * the signature is moved to a different location.
    *)
    try g#pread_device fs 10 4086L = "SWAPSPACE2"
    with _ -> false in

if is_linux_x86_swap then (  
  message (f_"Clearing Linux swap on %s") fs;

  (* Don't use mkswap. Just preserve the header containing
  * the label, UUID and swap format version (libguestfs
  * mkswap may differ from guest's own).
  *)
  let header = g#pread_device fs 4096L in
  g#zero_device fs;
  if g#pwrite_device fs header 0L <> 4096 then
    error (f_"pwrite: short write restoring swap partition header")
  )
)
)

  g#umount_all ()
)
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (  

(  

)}
fun vg ->
  if not (List.mem vg ignores) then (       
    let lvname = String.random8 () in
    let lvdev = "/dev/" ^ vg ^ "" ^ lvname in

    let created =           
      try g#lvcreate_free lvname vg 100; true
      with _ -> false in

    if created then (         
      message (f_"Fill free space in volgroup %s with zero") vg;

      g#zero_device lvdev;
      g#sync ();
      g#lvremove lvdev
    )
  )
)

vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
  * destination and automatically does sparsification.  *
  *)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s%s %s %s"
    (quote output_format)
    (if compress then " -c" else "")
    (match option with
     | None -> ""
     | Some option -> " -o " ^ quote option)
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
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fake
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*)

(** This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string
option -> string option -> string list -> unit
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1.1732 python-hvac 0.2.17-1.tet

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1.1733 lz4 2.5.4

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  jar/com/mongodb/operation/ListCollectionsOperation.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/connection/KillCursorsMessage.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/connection/InsertMessage.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
jar/com/mongodb/operation/FindOperation.java
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  jar/com/mongodb/selector/PrimaryServerSelector.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/selector/ReadPreferenceServerSelector.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/annotations/ThreadSafe.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/annotations/Immutable.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1- jar/com/mongodb/operation/OperationExecutor.java

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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1- jar/com/mongodb/client/model/BucketOptions.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1- jar/com/mongodb/client/model/Facet.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1- jar/com/mongodb/client/model/Field.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1- jar/com/mongodb/event/ServerHeartbeatSucceededEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1- jar/com/mongodb/client/model/BucketGranularity.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/client/model/Sorts.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/internal/event/EventListenerHelper.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/client/model/changestream/FullDocument.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/Compressor.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/internal/connection/NoOpSessionContext.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/LegacyMessage.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/ZlibCompressor.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/CompressedMessage.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/MongoCompressor.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/CommandMessage.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/LegacyProtocol.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/CommandProtocol.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/ClusterClock.java

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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerHeartbeatStartedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerClosedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerListener.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerDescriptionChangedEvent.java
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*/
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */

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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/MongoWriteConcernException.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/netty/NettyStream.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/event/ConnectionMessagesSentEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/ServerDescription.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/GSSAPIAuthenticator.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/SingleServerCluster.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/DefaultClusterableServerFactory.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/BaseCluster.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/SaslAuthenticator.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/DefaultServerMonitor.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/event/ClusterOpeningEvent.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3.6.0-sources-1-
jar/com/mongodb/connection/ClusterClosedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3.6.0-sources-1-
jar/com/mongodb/connection/ClusterDescription.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3.6.0-sources-1-
jar/com/mongodb/connection/ClusterListener.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3.6.0-sources-1-
jar/com/mongodb/event/ConnectionMessageReceivedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3.6.0-sources-1-
jar/com/mongodb/MongoCredential.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3.6.0-sources-1-
jar/com/mongodb/connection/SocketStreamHelper.java

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jar/com/mongodb/bulk/IndexRequest.java
*/opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
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1.1743 opensaml-security-impl 3.3.0

1.1744 jetty-servlet 9.2.24.v20180105

1.1745 apache-felix-gogo-shell 0.10.0

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1.1746 slf4j 1.7.25

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
  <title>SLF4J License</title>
  <link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
</head>
<body>
  <script type="text/javascript">prefix='';</script>
  <script src="templates/header.js" type="text/javascript"></script>
  <div id="left">
    <script src="templates/left.js" type="text/javascript"></script>
  </div>
  <div id="right">
    <script src="templates/right.js" type="text/javascript"></script>
  </div>
  <div id="content">
    <h1>Licensing terms for SLF4J</h1>
    <p>SLF4J source code and binaries are distributed under the MIT license.</p>
    
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1.1747 xmlsec 1.2.20 7.el7_4

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* AOL
http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* Cryptocom LTD

1.1748 go-runewidth 0.0.4

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1.1749 javassist 3.21.0-GA

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtMethod.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Executor.java

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jar/javassist/NotFoundException.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/Javae.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/IntQueue.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Type.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Expr.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtClassType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/Expr.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
jar/javassist/bytecode/annotation/ClassMemberValue.java
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jar/javassist/bytecode/annotation/DoubleMemberValue.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
jar/javassist/bytecode/annotation/ShortMemberValue.java

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1.1751 golang-set 1.7.1
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1.1752 llvm 6.0.1-2.el7
1.1752.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinsrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: : preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: : preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqu %ymm1, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, %4
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, %5, %4
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT:    vzeroupper
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-
define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0

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define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}
; CHECK-NEXT: retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %0, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>* %8, align 1
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %16, %17, %18, %19, %20, %21, %22, %23, %24, %25, %26, %27, %28, %29, %30, %31, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 undef, %32 unde
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: _Z9test_charPcS_i_512:  
  ; CHECK: # %bb.0: # %entry  
  ; CHECK-NEXT: movl %edx, %eax  
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
  ; CHECK-NEXT: xorl %ecx, %ecx  
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
  ; CHECK-NEXT: .p2align 4, 0x90  
  ; CHECK-NEXT: .LBB9_1: # %vector.body  
  ; CHECK-NEXT: #:=>This Inner Loop Header: Depth=1  
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2  
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3  
  ; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2  
  ; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1  
  ; CHECK-NEXT: addq $32, %rcx  
  ; CHECK-NEXT: cmpq %rcx, %rax  
  ; CHECK-NEXT: jne .LBB9_1  
  ; CHECK-NEXT: #: %bb.2: # %middle.block  
  ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0  
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1  
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
  ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
  ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,2,3]  
  ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0  
  ; CHECK-NEXT: vmovd %xmm0, %eax  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  entry:  
  %3 = zext i32 %2 to i64  
  br label %vector.body  
vector.body:  
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]  
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]  
  %4 = getelementptr inbounds i8, i8* %0, i64 %index  
  %5 = bitcast i8* %4 to <32 x i8>*  
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1  
  %6 = sext <32 x i8> %wide.load to <32 x i32>  
  %7 = getelementptr inbounds i8, i8* %1, i64 %index  
  %8 = bitcast i8* %7 to <32 x i8>*/
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = nsw mul <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:  vxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  vxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90

; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT:    vpadd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %ymm1
; CHECK-NEXT:    vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd [{.*#+}] xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd [{.*#+}] xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq

entry:
    br label %vector.body

vector.body:

    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = sext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = sext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitialize, %6
    %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
    %10 = add nsw <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:

    %.lcssa = phi <16 x i32> [ %10, %vector.body ]
    %%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx = add <16 x i32> %.lcssa, %%rdx.shuf
    %%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
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%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" { ; CHECK-LABEL: sbto16f32_256: ; CHECK: # %bb.0: ; CHECK-NEXT: vpmovw2m %ymm0, %k0 ; CHECK-NEXT: kshiftrw $8, %k0, %k1 ; CHECK-NEXT: vpmovm2d %k1, %ymm0 ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0 ; CHECK-NEXT: vpmovm2d %k0, %ymm1 ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1 ; CHECK-NEXT: vmovaps %ymm1, (%rdi) ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f64_512:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vcvtldqu %ymm0, %zmm1
    ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT: vcvtldqu %ymm0, %zmm0
    ; CHECK-NEXT: vcmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT: vcmovaps %zmm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    %mask = icmp slt <16 x i16> %a, zero
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f32_256:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vpsrlw $31, %ymm0, %ymm0
    ; CHECK-NEXT: vcvtldqu %ymm0, %ymm0
    ; CHECK-NEXT: vcmovaps %ymm0, %zmm1
    ; CHECK-NEXT: vcmovaps %zmm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    %mask = icmp slt <16 x i16> %a, zero
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f32_512:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT: vcvtldqu %zmm0, %zmm0
    ; CHECK-NEXT: vcmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT: vcmovaps %zmm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    %mask = icmp slt <16 x i16> %a, zero
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
; mask = icmp slt <16 x i16> %a, zeroninitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrlld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrlld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 64(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroninitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrlld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %yrm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymn0
; CHECK-NEXT: vcvtdq2pd %yrm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroninitialize
%l = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %l, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:
; %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:
; %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:
; %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: test_16f32tosb_512:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1  
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1  
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}  
    ; CHECK-NEXT:    retq  
    %a = load <16 x float>, <16 x float>* %ptr  
    %mask = fptosi <16 x float> %a to <16 x i1>  
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
    ret <16 x i16> %select  
}  

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: mul256:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2  
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3  
    ; CHECK-NEXT:   vpunpckhbw {{.*#+}} ymm4 =  
        ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]  
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm5 =  
        ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]  
    ; CHECK-NEXT:    vpmullw %ymm4, %ymm5, %ymm5  
    ; CHECK-NEXT:    vpmullw %ymm4, %ymm5, %ymm4  
    ; CHECK-NEXT:    vpmullw %ymm2, %ymm0, %ymm0  
    ; CHECK-NEXT:    vpmullw %ymm2, %ymm0, %ymm0  
    ; CHECK-NEXT:    vpmullw %ymm2, %ymm0, %ymm0  
    ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm2 =  
        ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]  
    ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm0 =  
        ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]  
    ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm5 =  
        ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]  
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {  
; CHECK-LABEL: mul512:  
; CHECK:       # %bb.0:  
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1  
; CHECK-NEXT: vpunpckhbw {.*#++]} %zmm2 =  
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31]  
; CHECK-NEXT: vpunpckhbw {.*#++]} %zmm4 =  
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31]  
; CHECK-NEXT: vpmullw %zmm2, %zmm4, %zmm2  
; CHECK-NEXT: vpand %zmm5, %zmm2, %zmm2  
; CHECK-NEXT: vpackuswb %zmm2, %zmm1, %zmm1  
; CHECK-NEXT: vmovdqa %zmm1, 32(%rdx)  
; CHECK-NEXT: vmovdqa %zmm0, (%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%d = load <64 x i8>, <64 x i8>* %a  
%e = load <64 x i8>, <64 x i8>* %b  
%f = mul <64 x i8> %d, %e  
store <64 x i8> %f, <64 x i8>* %c  
ret void  
}

Open Source Used In Tetration 3.5.1 17935
; CHECK-NEXT:    vpunpckhbw {{.*#*+}} zmm3 = zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,\ldots\;CHECK-NEXT:    vpunpckhbw {{.*#*+}} zmm1 = zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1[51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55] ; CHECK-NEXT:    vpmullw %zmm2, %zmm3, %zmm2 ; CHECK-NEXT:    vmovdqa64 {{.*#*+}} zmm3 = [255,255,255,255,255,\ldots]; CHECK-NEXT:    vpandq %zmm3, %zmm2, %zmm2 ; CHECK-NEXT:    vpackuswb %zmm2, %zmm0, %zmm0 ; CHECK-NEXT:    vzeroupper ; CHECK-NEXT:    retq ; CHECK-NEXT:    vpmullw %zmm1, %zmm0, %zmm0 ; CHECK-NEXT:    vpmullw %zmm0, %zmm0, %zmm0 ; CHECK-NEXT:    vpackuswb %zmm2, %zmm0, %zmm0 ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx) ; CHECK-NEXT:    vzeroupper ; CHECK-NEXT:    retq ; CHECK-NEXT:    vpmullw %zmm1, %zmm0, %zmm0 ; CHECK-NEXT:    vpmullw %zmm0, %zmm0, %zmm0 ; CHECK-NEXT:    vpackuswb %zmm2, %zmm0, %zmm0 ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx) ; CHECK-NEXT:    vzeroupper ; CHECK-NEXT:    retq %d = load <64 x i8>, <64 x i8>* %a %e = load <64 x i8>, <64 x i8>* %b %f = mul <64 x i8> %d, %e store <64 x i8> %f, <64 x i8>* %c ret void } Copyright (c) 2006 Kirill Simonov Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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<tr>
<td>&lt;none yet&gt;</td>
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</table>

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" { 
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; VEC512-LABEL: 'zext256'
    ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; %A = zext <8 x i16> undef to <8 x i64>
    ; %B = zext <8 x i32> undef to <8 x i64>
    ; %C = zext <16 x i8> undef to <16 x i32>
    ; %D = zext <16 x i16> undef to <16 x i32>
    ; %E = zext <32 x i8> undef to <32 x i16>

define void @zext512() "min-legal-vector-width"="512" {
 ; AVX-LABEL: 'zext512'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; SKX256-LABEL: 'zext512'
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'zext512'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>

; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

} 

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 */

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
  ; preds = %entry
  br label %while.body

while.body:
  ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i:
  ; preds = %while.body
  unreachable

sw.bb3.i:
  ; preds = %while.body
  unreachable

exit:
  ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

sw.bb.i17:
  ; preds = %.exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20:
  ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2:
  ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body
while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
 ; CHECK-LABEL: test_sitofp_fixed:

 ; First, extend each i32 to i64
 ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
 ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
 ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

 ; Next, convert each to double.
 ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
 ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
 ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
 ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
 ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
 ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
 ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
 ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

 ; CHECK: ret
 %flt = sitofp <16 x i32> %in to <16 x double>
 %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
 ; CHECK-LABEL: test_sitofp_fixed_shortish:

 ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_HI]]
 ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
 ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
 ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
 ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
 ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
 ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
 ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

 ; CHECK: ret
 %flt = sitofp <4 x i64> %in to <4 x double>
 %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[C1:const[0-9]*] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[C2:const[0-9]*] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[C3:const[0-9]*] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[C4:const[0-9]*] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[C2] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %2 = inttoptr i32 %[C2], 4
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %4 = inttoptr i32 %[C2], 31
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[C1] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
define void @foo_i8() {
    entry:
    %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
    %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
    %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
    %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
    %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
    store i8 %4, i8* inttoptr(i32 805873688 to i8*)
    store i8 %3, i8* inttoptr(i32 805873719 to i8*)
    store i8 %2, i8* inttoptr(i32 805873720 to i8*)
    store i8 %1, i8* inttoptr(i32 805873727 to i8*)
    store i8* inttoptr(i32 805874800 to i8*), i8** @goo
    ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
ret void

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<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Test</td>
<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
<td>ARM contributions</td>
<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
</tr>
<tr>
<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
</tr>
</tbody>
</table>

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; RUN: llc -s %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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1.1753 libfile-basedir-perl 0.03-1fakesync1

1.1753.1 Available under license:
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::BaseDir - Use the Freedesktop.org base directory specification

=head1 SYNOPSIS

use File::BaseDir qw/xdg_data_files/;
for ( xdg_data_files('mime/globs') ) { 
  # do something
}

=head1 DESCRIPTION

This module can be used to find directories and files as specified
by the Freedesktop.org Base Directory Specification. This specifications
gives a mechanism to locate directories for configuration, application data
and cache data. It is suggested that desktop applications for e.g. the
Gnome, KDE or Xfce platforms follow this layout. However, the same layout can
just as well be used for non-GUI applications.

This module forked from L<File::MimeInfo>.

This module follows version 0.6 of BaseDir specification.

=head1 EXPORT

None by default, but all methods can be exported on demand.
Also the groups ":lookup" and ":vars" are defined. The ":vars" group
contains all routines with a "xdg_" prefix; the ":lookup" group
contains the routines to locate files and directories.

=head1 METHODS

=over 4

=item C<new()>

Simple constructor to allow Object Oriented use of this module.

=back

=head2 Lookup

The following methods are used to lookup files and folders in one of the search paths.

=over 4

=item C<data_home(@PATH)> 

Takes a list of file path elements and returns a new path by appending them to the data home directory. The new path does not need to exist. Use this when writing user specific application data.

Example:

# data_home is: /home/USER/local/share
$path = $bd->data_home('Foo', 'Bar', 'Baz');
# returns: /home/USER/local/share/Foo/Bar/Baz

=item C<data_dirs(@PATH)> 

Looks for directories specified by C<@PATH> in the data home and other data directories. Returns (possibly empty) list of readable directories. In scalar context only the first directory found is returned. Use this to lookup application data.

=item C<data_files(@PATH)> 

Looks for files specified by C<@PATH> in the data home and other data directories. Only returns files that are readable. In scalar context only the first file found is returned. Use this to lookup application data.

=item C<config_home(@PATH)> 

Takes a list of path elements and appends them to the config home directory returning a new path. The new path does not need to exist.
Use this when writing user specific configuration.

=item C<config_dirs(@PATH)>

Looks for directories specified by C<@PATH> in the config home and other config directories. Returns (possibly empty) list of readable directories. In scalar context only the first directory found is returned. Use this to lookup configuration.

=item C<config_files(@PATH)>

Looks for files specified by C<@PATH> in the config home and other config directories. Returns a (possibly empty) list of files that are readable. In scalar context only the first file found is returned. Use this to lookup configuration.

=item C<cache_home(@PATH)>

Takes a list of path elements and appends them to the cache home directory returning a new path. The new path does not need to exist.

=head2 Variables

The following methods only returns the value of one of the XDG variables.

=over 4

=item C<xdg_data_home>

Returns either C<$ENV[XDG_DATA_HOME]> or it's default value. Default is F<$HOME/.local/share>.

=item C<xdg_data_dirs>

Returns either C<$ENV[XDG_DATA_DIRS]> or it's default value as list. Default is F</usr/local/share>, F</usr/share>.

=item C<xdg_config_home>

Returns either C<$ENV[XDG_CONFIG_HOME]> or it's default value. Default is F<$HOME/.config>.

=item C<xdg_config_dirs>

Returns either C<$ENV[XDG_CONFIG_DIRS]> or it's default value as list. Default is F</etc/xdg>.
=item C<xdg_cache_home>

Returns either C<$ENV{'XDG_CACHE_HOME'}> or its default value. Default is F<$HOME/.cache>.

=back

=head1 NON-UNIX PLATFORMS

The use of L<File::Spec> ensures that all paths are returned in the appropriate form for the current platform. On Windows this module will try to set C<$HOME> to a sensible value if it is not defined yet. On other platforms one can use e.g. L<File::HomeDir> to set $HOME before loading File::BaseDir.

Please note that the specification is targeting Unix platforms only and will only have limited relevance on other platforms. Any platform dependent behavior in this module should be considered an extension of the spec.

=head1 BACKWARDS COMPATIBILITY

The methods C<xdg_data_files()> and C<xdg_config_files()> are exported for backwards compatibility with version 0.02. They are identical to C<data_files()> and C<config_files()> respectively but without the C<wantarray> behavior.

=head1 BUGS

Please mail the author if you encounter any bugs.

=head1 AUTHOR

Jaap Karssenberg || Pardus [Larus] E<lt>pardus@cpan.orgE<gt>

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=head1 SEE ALSO

L<http://www.freedesktop.org/wiki/Specifications/basedir-spec>

Found in path(s):
* /opt/cola/permits/1138401368_1614281809.99/0/libfile-basedir-perl-0-03-orig-1.tar-gz/libfile-basedir-perl-0.03/lib/File/BaseDir.pm
No license file was found, but licenses were detected in source scan.

---

name: File-BaseDir
version: 0.03
author:
  - 'Jaap Karssenberg <pardus@cpan.org>'
abstract: Use the Freedesktop.org base directory specification
license: perl
resources:
  license: http://dev.perl.org/licenses/
requires:
  Carp: 0
  Exporter: 0
  File::Spec: 0
buildRequires:
  Module::Build: 0.24
  Test::More: 0
provides:
  File::BaseDir:
    file: lib/File/BaseDir.pm
    version: 0.03
generated_by: Module::Build version 0.2806
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.2.html
  version: 1.2

Found in path(s):
  */opt/cola/permits/1138401368_1614281809.99/0/libfile-basedir-perl-0-03-orig-1.tar.gz/libfile-basedir-perl-0.03/META.yml
No license file was found, but licenses were detected in source scan.

File-BaseDir
============

This module can be used to find directories and files as specified by the Freedesktop.org Base Directory Specification.

INSTALLATION

To install this module type the following:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install

DEPENDENCIES

This module requires these other modules which can be obtained from the CPAN <http://cpan.org> if they are not already installed on your system:
Module::Build
Carp
Exporter
File::Spec

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Found in path(s):
* /opt/cola/permits/1138401368_1614281809.99/0/libfile-basedir-perl-0-03-orig-1-tar-gz/libfile-basedir-perl-0.03/README

1.1754 gobject-introspection 1.40.0
1ubuntu0.2
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Version 3, 29 June 2007


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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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3.3.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)

hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java

hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/\{lz4.h,lz4.c,lz4hc.h,lz4hc.c\}

hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/\{fstatat\|openat\|unlinkat\}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/#

hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc

hadoop-common-project/hadoop-common/src/main/native/gtest/gtest.h

hadoop-common-project/hadoop-common/src/main/native/include/gtest/gtest.h

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/\{fstatat\|openat\|unlinkat\}.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.4.1.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

========
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
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* /opt/cola/permits/1138241682_1614277489.38/0/jmespath-java-1-11-414-sources-1.jar/com/amazonaws/jmespath/OpSubList.java
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=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:

    package YourModule;
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

    package YourModule;
    use Exporter 'import'; # gives you Exporter's import() method directly
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

    use YourModule qw(frobnicate);  # import listed symbols
    frobnicate ($left, $right)      # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented
in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

@EXPORT = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };
$subref->(@args);     # Call it as a function
$obj->$subref(@args); # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.
Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

[!]name This name only
[!]:DEFAULT All names in @EXPORT
[!]:tag All names in $EXPORT_TAGS{tag} anonymous list
[!]/pattern/ All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import
extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., F<Module.pm> defines:

```perl
@EXPORT = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```perl
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C@$what_to_export> is an array telling what symbols *to* export (usually this is C@$_>). The C$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1; # not a very useful import method
}

and you want to Export symbol C<$A::b> back to the module that called
package A. Since Exporter relies on the import method to work, via
inheritance, as it stands Exporter::import() will never get called.
Instead, say the following:

package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to
the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level
- or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method
but you also inherit several other helper methods which you probably don't
want. To avoid this you can do

package YourModule;
use Exporter qw( import );

which will export Exporter's own import() method into YourModule.
Everything will work as before but you won't need to include Exporter in
C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57
of Exporter, released with perl 5.8.3.

=head2 Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to C<< $module_name->VERSION($value) >>. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION> existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<@EXPORT_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');  # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C:@EXPORT or C:@EXPORT_OK unchanged but will trigger a warning (with C:-w) to avoid misspelt tags names being silently added to C:@EXPORT or C:@EXPORT_OK. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C:%EXPORT_TAGS%, it’s usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
            foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in C:%EXPORT_TAGS% don't have the leading ":".

=head2 AUTOLOADed Constants

Many modules make use of C:<AUTOLOAD>ing for constant subroutines to
avoid having to compile and waste memory on rarely used values (see \texttt{L<perlsub>} for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been \texttt{C<AUTOLOAD>ed} yet). \texttt{perl} needs to examine both the \texttt{C<()> prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a \texttt{C<BEGIN> block}:

```perl
define My:
use Socket :;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the \texttt{C<AUTOLOAD>} for \texttt{SO_LINGER} to take place before \texttt{SO_LINGER} is encountered later in \texttt{C<My> package}.

If you are writing a package that \texttt{C<AUTOLOAD>s}, consider forcing an \texttt{C<AUTOLOAD>} for any constants explicitly imported by other packages or which are usually used when your package is \texttt{C<use>d}.

=head1 Good Practices

=head2 Declaring \texttt{C<@EXPORT_OK>} and Friends

When using \texttt{C<Exporter> with the standard C<strict> and C<warnings> pragmas, the C<our> keyword is needed to declare the package variables \texttt{C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc}.}

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a \texttt{C<use vars>} statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe
There are some caveats with the use of runtime statements like `require Exporter` and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use `BEGIN` blocks. So the first part of the L</SYNOPSIS> code could be rewritten as:

```
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}
```

The `BEGIN` will assure that the loading of `Exporter.pm` and the assignments to `@ISA` and `@EXPORT_OK` happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading `Exporter` and inheriting, there are alternatives with the use of modules like `base` and `parent`.

```
use base qw( Exporter );
# or
use parent qw( Exporter );
```

Any of these statements are nice replacements for `BEGIN { require Exporter; @ISA = qw(Exporter); }` with the same compile-time effect. The basic difference is that `base` code interacts with declared `fields` while `parent` is a streamlined version of the older `base` code to just establish the IS-A relationship.

For more details, see the documentation and code of `base` and `parent`.

Another thorough remedy to that runtime vs. compile-time trap is to use `Exporter::Easy`, which is a wrapper of `Exporter` that allows all
boilerplate code at a single gulp in the use statement.

use Exporter::Easy (
    OK => [ qw(munge frobnicate) ],
);
# @ISA setup is automatic
# all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L</Selecting What to Export> to not export:

=over 4

=item *

method names (because you don't need to and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users... badly)

=item *

anything you don't need to (because less is more)

=back

There's one more item to add to this list. Do B<not> export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

@@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me; they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO
C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Tidy
Sub::Exporter / Sub::Installer
Perl6::Export / Perl6::Export::Attrs

=head1 LICENSE

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=cut

Found in path(s):
* /opt/cola/permits/1135855402_1613616259.16/0/perl-Exporter-5.68-3.el7-1.src.rpm-cosi-expand-archive-yod4W2uk/Exporter-5.68.tar.gz-cosi-expand-archive-9uohzHOr/Exporter-5.68/lib/Exporter.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1135855402_1613616259.16/0/perl-Exporter-5.68-3.el7-1.src.rpm-cosi-expand-archive-yod4W2uk/perl-Exporter.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'Implements default import method for modules'
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Exporter
no_index:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
version: 5.68

Found in path(s):
* /opt/cola/permits/1135855402_1613616259.16/0/perl-Exporter-5.68-3.el7-1.src.rpm-cosi-expand-archive-yod4W2uk/Exporter-5.68.tar.gz-cosi-expand-archive-9uohzHOt/Exporter-5.68/META.yml

No license file was found, but licenses were detected in source scan.

NAME
  Exporter - Implements default import method for modules

SYNOPSIS
  In module YourModule.pm:

      package YourModule;
      require Exporter;
      @ISA = qw(Exporter);
      @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

  or

      package YourModule;
      use Exporter 'import';  # gives you Exporter's import() method directly
      @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

  In other files which wish to use "YourModule":

      use YourModule qw(frobnicate);  # import listed symbols
      frobnicate ($left, $right)  # calls YourModule::frobnicate

Take a look at "Good Practices" for some variants you will like to use
in modern Perl code.

DESCRIPTION
The Exporter module implements an "import" method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own "import" method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export

The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

```perl
@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

Selecting What To Export

Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item_name" (or "$blessed_ref->method") syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```perl
my $subref = sub { ... };
$subref->(@args);       # Call it as a function
$obj->$subref(@args);   # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)
As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then @EXPORT_OK anything but use @EXPORT with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in perlmod.

How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

Advanced features

Specialised Import Lists
If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

[!]name  This name only
[!]:DEFAULT    All names in @EXPORT
[!]:tag        All names in $EXPORT_TAGS{tag} anonymous list
[!]/pattern/  All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.
e.g., Module.pm defines:

```perl
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK. Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/[AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.

Exporting without using Exporter's import method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```perl
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where $where_to_export is an integer telling how far up the calling stack to export your symbols, and @what_to_export is an array telling what symbols *to* export (usually this is @_). The $package argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
    $A::$b = 1;  # not a very useful import method
```
and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter

By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

```perl
package YourModule;
use Exporter qw( import );
```

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as
a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful
to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;
  push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}
```

CGI.pm creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

```perl
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;
  push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
    foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in %EXPORT_TAGS don't have the leading ":".

"AUTOLOAD"ed Constants

Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see perlsub for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to examine both the "()" prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:

```perl
package My ;
use Socket ;
```
foo( SO_LINGER );   ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );   ## SO_LINGER optimized away at compile time.

This forces the "AUTOLOAD" for "SO_LINGER" to take place before
SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an
"AUTOLOAD" for any constants explicitly imported by other packages or
which are usually used when your package is "use"d.

Good Practices
Declaring @EXPORT_OK and Friends
When using "Exporter" with the standard "strict" and "warnings" pragmas,
the "our" keyword is needed to declare the package variables @EXPORT_OK,
@EXPORT, @ISA, etc.

    our @ISA = qw(Exporter);
    our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must
write instead a "use vars" statement.

    use vars qw(@ISA @EXPORT_OK);
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);

Playing Safe
There are some caveats with the use of runtime statements like "require
Exporter" and the assignment to package variables, which can very subtle
for the unaware programmer. This may happen for instance with mutually
recursive modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to
use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be
rewritten as:

    package YourModule;
    use strict;
    use warnings;
    our (@ISA, @EXPORT_OK);
    BEGIN {
        require Exporter;
        @ISA = qw(Exporter);
The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

use base qw( Exporter );
# or
use parent qw( Exporter );

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

use Exporter::Easy (
    OK => [ qw(munge frobnicate) ],
);  # @ISA setup is automatic
    # all assignments happen at compile time

What not to Export
You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do what you want),

* anything by default (because you don't want to surprise your users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!
Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

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1.1776 kmod 15-0ubuntu7

1.1776.1 Available under license:
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linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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with the Library, with the complete machine-readable "work that
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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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1.1780 testify 1.4.0
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1.1781 libtext-soundex-perl 3.4-1build1

1.1782 perl-file-listing 6.04-7.el7

1.1782.1 Available under license:

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=head1 NAME

File::Listing - parse directory listing

=head1 SYNOPSIS

use File::Listing qw(parse_dir);
$ENV{LANG} = "C";  # dates in non-English locales not supported
for (parse_dir(`ls -l`)) {
    ($name, $type, $size, $mtime, $mode) = @$_;  
    next if $type ne 'f';  # plain file
    #...
}
This module exports a single function called `parse_dir()`, which can be used to parse directory listings.

The first parameter to `parse_dir()` is the directory listing to parse. It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in the listing. If this value is undefined, then the local time zone is assumed.

The third parameter is the type of listing to assume. Currently supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl `warn()` function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

Only the first parameter is mandatory.

The return value from `parse_dir()` is a list of directory entries. In a scalar context the return value is a reference to the list. The directory entries are represented by an array consisting of `$filename`, `$filetype`, `$filesize`, `$filetime`, `$filemode`. The `$filetype` value is one of the letters 'f', 'd', 'l' or '?'. The `$filetime` value is the seconds since Jan 1, 1970. The `$filemode` is a bitmask like the mode returned by `stat()`.
NAME
File::Listing - parse directory listing

SYNOPSIS
use File::Listing qw(parse_dir);
$ENV{LANG} = "C";  # dates in non-English locales not supported
for (parse_dir(`ls -l`)) {
    ($name, $type, $size, $mtime, $mode) = @$_;
    next if $type ne 'f';  # plain file
    #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz|");
$dir = parse_dir(
"*LISTING, '+0000');

DESCRIPTION
This module exports a single function called parse_dir(), which can be
used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse. It
can be a scalar, a reference to an array of directory lines or a glob
representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in
the listing. If this value is undefined, then the local time zone is
assumed.

The third parameter is the type of listing to assume. Currently
supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl warn() function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

Only the first parameter is mandatory.

The return value from parse_dir() is a list of directory entries. In a scalar context the return value is a reference to the list. The directory entries are represented by an array consisting of [ $filename, $filetype, $filesize, $filetime, $filemode ]. The $filetype value is one of the letters 'f', 'd', 'l' or '?'. The $filetime value is the seconds since Jan 1, 1970. The $filemode is a bitmask like the mode returned by stat().

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Based on lsparse.pl (from Lee McLoughlin's ftp mirror package) and Net::FTP's parse_dir (Graham Barr).

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Found in path(s):

1.1783 expat 2.2.5
1.1783.1 Available under license:
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1.1784 purell 1.0.0

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1.1785 curl 7.35.0-1ubuntu2.20

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krb4

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1.1791 python-pip-epel 8.1.2-14.el7

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1.1792 python-markdown 2.0.1-4.el6

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1.1793 boost 1.60.0

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() {}
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//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;

}}} }}}

#endif
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \ 
  template <typename T> \ 
  struct boost_intrusive_has_type_ ## TNAME \ 
  { \ 
    template <typename X> \ 
    static char test(int, typename X::TNAME*); \ 
    \ 
    template <typename X> \ 
    static int test(...); \ 
    \ 
    static const bool value = (1 == sizeof(test<T>(0, 0))); \ 
  }; \ 
\ 
  template <typename T, typename DefaultType> \ 
  struct boost_intrusive_default_type_ ## TNAME \ 
  { \ 
    struct DefaultWrap { typedef DefaultType TNAME; }; \ 
    \ 
    typedef typename \ 
    ::boost::intrusive::detail::if_c \ 
    < boost_intrusive_has_type_ ## TNAME<T>::value \ 
    , T, DefaultWrap::type::TNAME type; \ 
  }; \ 
\ 
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \ 
  typename INSTANTIATION_NS_PREFIX \ 
  boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \ 
\ 
#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \ 
  INSTANTIATION_NS_PREFIX \ 
  boost_intrusive_has_type_ ## TNAME< T >::value \ 
\ 
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME) \ 
  template <typename T, typename DefaultType> \ 
  struct boost_intrusive_eval_default_type_ ## TNAME \ 
  { \ 
    template <typename X> \ 
    static char test(int, typename X::TNAME*); \ 
    \ 
    template <typename X> \ 
    static int test(...); \ 
  }\ 
\ 
Open Source Used In Tetration 3.5.1 18256
struct DefaultWrap
{ typedef typename DefaultType::type TNAME; 
};

static const bool value = (1 == sizeof(test<T>(0, 0))); 

typedef typename
::boost::intrusive::detail::eval_if_c
< value
, ::boost::intrusive::detail::identity<T>
, ::boost::intrusive::detail::identity<DefaultWrap>
>::type::TNAME type;

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,\
TNAME, TIMPL)\
    typename INSTANTIATION_NS_PREFIX\
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type\
//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,\
TYPEDEF_TO_FIND)\
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
    template<bool Add>\
        struct two_or_three {yes_type _[2 + Add];};\
    template <class U> static yes_type test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\}
\template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,\
FUNC_NAME)\
    template <typename U, typename Signature>\
        class TRAITS_NAME\
        {\
        private:\
            template<Signature> struct helper;\
            template<typename T>\
                static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);\
};
template<typename T> static ::boost::intrusive::detail::no_type test(...); \
public: \
static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template<typename Type> \
struct TRAITS_NAME \
{ \
  struct BaseMixin \
  { \
    void FUNC_NAME(); \
  }; \
  struct Base : public Type, public BaseMixin { Base(); }; \
  template<typename T, T t> class Helper{}; \
  template<typename U> \
  static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
  static ::boost::intrusive::detail::yes_type test(...); \
  static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, \
FUNC_NAME) BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \

template<typename Type, class> \
struct TRAITS_NAME : public TRAITS_NAME##_ignore_signature<Type> \
{};

namespace detail 
namespace intrusive 
namespace boost 

#include <boost/intrusive/detail/config_end.hpp> 

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP 

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP 

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library
will no longer implicitly include any MPL header. However there is an implicit conversion from
'integral_constant' to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type.

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
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var group__group_ext_mpl =
[  
  [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
  [ "list", "structboost_1_1mpl_1_1list.html", null ],
  [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t [ ]:
  using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>; 

int main() { }

/////////////////////////////////////////////////////////////////////////////
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// http://www.boost.org/LICENSE_1_0.txt)
//
//
//////////////////////////////////////////////////////////////////////////////
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif
#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/mpl.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_{
using boost::move_detail::identity;
using boost::move_detail::bool_{
using boost::move_detail::true_{
using boost::move_detail::false_{
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_{
using boost::move_detail::true_{
using boost::move_detail::false_{

}}}
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

template<class T>
    const type& operator()(const T& x) const
    { return x.first;  }

template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first);   }
};

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
    : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{
};

}  //namespace dtl {
}  //namespace container {
}  //namespace boost {
#include <boost/container/detail/config_end.hpp>
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <cassert>
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant {
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;  
};

typedef bool_<true>    true_;
typedef bool_<false>   false_;

typedef true_  true_type;
typedef false_  false_type;

}}}
#endif //BOOST_INTERPROCESS_DETAIL_MPL_HPP
typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<bool C, typename T1, typename T2>
struct if_c
{
    typedef T1 type;
};

template<typename T1, typename T2>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<typename T1, typename T2, typename T3>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template<\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\\n
    template<\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\\n
    template<> \n    struct ls_zeros<0> \n    { \n        static const std::size_t value = 0; \n    }; \n    \n    template<> \n    struct ls_zeros<1> \n    { \n        static const std::size_t value = 0; \n    }; \n
}  //namespace ipcdetail { \n}  //namespace interprocess { \n}  //namespace boost { \n
#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename],
                universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
dates = filter(None, map(itemgetter(1), records))
if not dates: dates = alldates
start = min(dates)
end = max(dates)
fmt = '{0}' if start.year == end.year else '{0}-{1}'
line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
key = (start, author)
yield key, line
return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^\W*(\(c\))? copyright\(\(c\)\)\s*\d{4}(\s*\-\s*\d{4})?\s+(\?\P<name>[^\s]*)\s*$',
                line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
            if len(prefix) != 1:
                print 'Not found:', filename
                return
        prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

    for f in all_files():

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Maybe this should pass?

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<para>
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Jeff Garland

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug
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Adapters for Boost.MPL containers.

- **boost::mpl::integral_c**
  - Adapter for IntegralConstants from the Boost.MPL.
  - More...
- **boost::mpl::list**
  - Adapter for Boost.MPL lists.
- **boost::mpl::vector**
  - Adapter for Boost.MPL vectors.

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http_parser.c is based on src/http/ngx_http_parse.c from NGINX copyright Igor Sysoev.

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[ MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

struct split_path
{
    const fs::path& root;
    const fs::path& file;

    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f)
    {
    }

    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string &s)
// convert an arbitrary string into something suitable
// for an <a> name:
std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
} // convert an arbitrary string into something suitable
// for an <a> name:
std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
} return result;

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
    "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
    "<html>
    "<head>
    "<title>Boost Licence Dependency Information"
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<"</title>
""</head>
""<body>
""<H1>Boost Licence Dependency Information"
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<"</H1>"Boost Licence Dependency Information"
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
"</H1>\n" 
"<H2>Contents</h2>\n" 
"<pre><a href="#input">Input Information</a>\n" 
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>\n"; 
    os << "<a href="#details">Licence Details</a>\n"; 

while(i != j) 
{ 
    // title: 
    os << "  <A href="#" << make_link_target(licenses.first[i->first].license_name) 
        "">" << licenses.first[i->first].license_name << "</a>\n"; 
    ++i; 
}

os << "<a href="#files">Files with no recognised license</a>\n" 
"<a href="#authors">Files with no recognised copyright holder</a>\n"; 
if(!m_bsl_summary_mode)
    { 
    os << 
"Moving to the Boost Software License...\n" 
"  <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n" 
"  <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n" 
"  <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>\n" 
"  <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n" 
"<a href="#copyright">Copyright Holder Information</a>\n";
    }
    os << 
"<a href="#depend">File Dependency Information</a>\n" 
"</pre>";

// // input Information:
// 
// os << "<a name="input"></a><h2>Input Information</h2>\n"; 
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>"; 
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{ 
    os << *si << "<BR>"; 
    ++si; 
}
    os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";
// extract the boost version number from the boost directory tree, not from this app (which may have been built from a previous version):

fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
  "^[[:blank:]*#][[:blank:]*define[[:blank:]*BOOST_VERSION[[:blank:]*((\d+))];
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
  os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</P>\n";
}

// output each license:

i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  // start with the summary:
  //
  os << "<a name="summary"></a><h2>Licence Summary</h2>
  while(i ! = j)
  {
    // title:
    os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" " make_link_target(licenses.first[i->first].license_name) "(see details)"/a"></P>";
    os << "</P></BLOCKQUOTE>\n";
    ++i;
  }
  // and now the details:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
";
while(i != j)
{
    // title:
    os <<
        "<H3><A name="""" << make_link_target(licenses.first[i->first].license_name)
        "">" << licenses.first[i->first].license_name << "</H3>
"
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:"
            "<BLOCKQUOTE><P>
            std::set<std::string>::const_iterator x, y;
            x = i->second.authors.begin();
            y = i->second.authors.end();
            while(x != y)
            {
                os << *x << "<BR>"
                ++x;
            }
        os << "/P></BLOCKQUOTE>";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << " files:"
            "<BLOCKQUOTE><P>
            std::set<fs::path, path_less>::const_iterator m, n;
            m = i->second.files.begin();
            n = i->second.files.end();
            while(m != n)
            {
                os << split_path(m_boost_path, *m) << "<br>"
                ++m;
            }
        os << "/P></BLOCKQUOTE>";
    }
    else
    {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>
"
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>";
    }
    ++license_index;
    ++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files">Files With No Recognisable Licence</a></h2>";}
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:
" " <BLOCKQUOTE>" <P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  " ++i2;
}
os << "</p>" " <BLOCKQUOTE>";

// Output list of files with no found copyright holder:

os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
" " <BLOCKQUOTE>" <P>
The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:
" " <BLOCKQUOTE>" <P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  " ++i2;
}
os << "</p>" " <BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
  // Output list of files that have been moved over to the Boost
  // Software License, along with enough information for human
  // verification.
  //
  os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>
" << "The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:
" " <BLOCKQUOTE>";
if (!m_converted_to_bsl.empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
  ie = m_converted_to_bsl.end();
  int file_num = 1;
  while (i != ie)
  {
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
    "<br><tt>\n<table border="1">\n<thead><tr><td><pre>
    " << i->second.first << "</pre></td><td><pre>
    " << i->second.second << "</pre>
  </td></tr></thead>
</table><tt>\n</tt><tt>\n";
    file_num++;
    os << "</p>" << "<PRE>
";
  }
}
<< i->second.second << "</pre></td>\n</tr></table></td>\n);
++i;
++file_num;
}
}
// Output list of files that could be moved over to the Boost Software License
// os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2><p>
The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</p><blockquote><p>
_i2 = m_can_migrate_to_bsl.begin();
_j2 = m_can_migrate_to_bsl.end();
while(_i2 != _j2)
{
    os << split_path(m_boost_path, _i2) << "<br>\n";
    ++_i2;
}
os << "</p></blockquote>
// Output list of files that can not be moved over to the Boost Software License
// os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2><p>
The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</p><blockquote><p>
_i2 = m_cannot_migrate_to_bsl.begin();
_j2 = m_cannot_migrate_to_bsl.end();
while(_i2 != _j2)
{
    os << split_path(m_boost_path, _i2) << "<br>\n";
    ++_i2;
}
os << "</p></blockquote>
// Output list of authors that we need permission for to move to the BSL
// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2><p>
Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>\n");

os << "</p></blockquote>
// output a table of copyright information:
// os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1"\n";
std::map<std::string, std::set<fs::path, path_less>> ::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
  os << "<tr><td>" << ad->first << " </td><td>
  std::set<fs::path, path_less>::const_iterator fi, efi;
  fi = ad->second.begin();
  efi = ad->second.end();
  while(fi != efi)
  {
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
  }
  os << "</td></tr>
  ++ad;
}
os << "</table>

//
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
  ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
  ie = m_converted_to_bsl.end();
while(i != ie)
{
  bad_paths.insert(i->first);
  ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>
";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                { os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":\n";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
1.1794 compress 1.4.1

1.1795 shaded-asynchttpclient 1.1.9

1.1796 libnet-http-perl 6.06-1

1.1796.1 Available under license:

No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::HTTP - Low-level HTTP connection (client)

=head1 SYNOPSIS

use Net::HTTP;
my $s = Net::HTTP->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/", 'User-Agent' => "Mozilla/5.0");
my($code, $mess, %h) = $s->read_response_headers;

while (1) {
    my $buf;
    my $n = $s->read_entity_body($buf, 1024);
    die "read failed: $!" unless defined $n;
    last unless $n;
    print $buf;
}

=head1 DESCRIPTION

The C<Net::HTTP> class is a low-level HTTP client. An instance of the
C<Net::HTTP> class represents a connection to an HTTP server. The
HTTP protocol is described in RFC 2616. The C<Net::HTTP> class
supports C<HTTP/1.0> and C<HTTP/1.1>.

C<Net::HTTP> is a sub-class of C<IO::Socket::INET>. You can mix the
methods described below with reading and writing from the socket
directly. This is not necessary a good idea, unless you know what you
are doing.

The following methods are provided (in addition to those of
C<IO::Socket::INET>):
=item $s = Net::HTTP->new( %options )

The C<Net::HTTP> constructor method takes the same options as C<IO::Socket::INET>'s as well as these:

- **Host**: Initial host attribute value
- **KeepAlive**: Initial keep_alive attribute value
- **SendTE**: Initial send_te attribute_value
- **HTTPVersion**: Initial http_version attribute value
- **PeerHTTPVersion**: Initial peer_http_version attribute value
- **MaxLineLength**: Initial max_line_length attribute value
- **MaxHeaderLines**: Initial max_header_lines attribute value

The C<Host> option is also the default for C<IO::Socket::INET>'s C<PeerAddr>. The C<PeerPort> defaults to 80 if not provided.

The C<Listen> option provided by C<IO::Socket::INET>'s constructor method is not allowed.

If unable to connect to the given HTTP server then the constructor returns C<undef> and $@ contains the reason. After a successful connect, a C<Net::HTTP> object is returned.

==item $s->host

Get/set the default value of the C<Host> header to send. The $host must not be set to an empty string (or C<undef>) for HTTP/1.1.

==item $s->keep_alive

Get/set the I<keep-alive> value. If this value is TRUE then the request will be sent with headers indicating that the server should try to keep the connection open so that multiple requests can be sent.

The actual headers set will depend on the value of the C<http_version> and C<peer_http_version> attributes.

==item $s->send_te

Get/set the a value indicating if the request will be sent with a "TE" header to indicate the transfer encodings that the server can choose to use. The list of encodings announced as accepted by this client depends on availability of the following modules: C<Compress::Raw::Zlib> for I<deflate>, and C<IO::Compress::Gunzip> for I<gzip>. 
Get/set the HTTP version number that this client should announce. This value can only be set to "1.0" or "1.1". The default is "1.1".

Get/set the protocol version number of our peer. This value will initially be "1.0", but will be updated by a successful read_response_headers() method call.

Get/set a limit on the length of response line and response header lines. The default is 8192. A value of 0 means no limit.

Get/set a limit on the number of header lines that a response can have. The default is 128. A value of 0 means no limit.

Format a request message and return it as a string. If the headers do not include a C<Host> header, then a header is inserted with the value of the C:host> attribute. Headers like C<Connection> and C<Keep-Alive> might also be added depending on the status of the C<keep_alive> attribute.

If $content is given (and it is non-empty), then a C<Content-Length> header is automatically added unless it was already present.

Format and send a request message. Arguments are the same as for format_request(). Returns true if successful.

Returns the string to be written for the given chunk of data.

Will write a new chunk of request entity body data. This method should only be used if the C<Transfer-Encoding> header with a value of C<chunked> was sent in the request. Note, writing zero-length data is a no-op. Use the write_chunk_eof() method to signal end of entity body data.
Returns true if successful.

```
=item $s->format_chunk_eof( %trailers )
```

Returns the string to be written for signaling EOF when a `C<Transfer-Encoding>` of `C<chunked>` is used.

```
=item $s->write_chunk_eof( %trailers )
```

Will write eof marker for chunked data and optional trailers. Note that trailers should not really be used unless is was signaled with a `C<Trailer>` header.

Returns true if successful.

```
=item ($code, $mess, %headers) = $s->read_response_headers( %opts )
```

Read response headers from server and return it. The $code is the 3 digit HTTP status code (see L<HTTP::Status>) and $mess is the textual message that came with it. Headers are then returned as key/value pairs. Since key letter casing is not normalized and the same key can even occur multiple times, assigning these values directly to a hash is not wise. Only the $code is returned if this method is called in scalar context.

As a side effect this method updates the 'peer_http_version' attribute.

Options might be passed in as key/value pairs. There are currently only two options supported; `C<laxed>` and `C<junk_out>`.

The `C<laxed>` option will make read_response_headers() more forgiving towards servers that have not learned how to speak HTTP properly. The `C<laxed>` option is a boolean flag, and is enabled by passing in a TRUE value. The `C<junk_out>` option can be used to capture bad header lines when `C<laxed>` is enabled. The value should be an array reference. Bad header lines will be pushed onto the array.

The `C<laxed>` option must be specified in order to communicate with pre-HTTP/1.0 servers that don't describe the response outcome or the data they send back with a header block. For these servers peer_http_version is set to "0.9" and this method returns (200, "Assumed OK").

The method will raise an exception (die) if the server does not speak proper HTTP or if the `C<max_line_length>` or `C<max_header_length>` limits are reached. If the `C<laxed>` option is turned on and
C<max_line_length> and C<max_header_length> checks are turned off, then no exception will be raised and this method will always return a response code.

=item $n = $s->read_entity_body($buf, $size);

Reads chunks of the entity body content. Basically the same interface as for read() and sysread(), but the buffer offset argument is not supported yet. This method should only be called after a successful read_response_headers() call.

The return value will be C<undef> on read errors, 0 on EOF, -1 if no data could be returned this time, otherwise the number of bytes assigned to $buf. The $buf is set to "" when the return value is -1.

You normally want to retry this call if this function returns either -1 or C<undef> with C<$!> as EINTR or EAGAIN (see L<Errno>). EINTR can happen if the application catches signals and EAGAIN can happen if you made the socket non-blocking.

This method will raise exceptions (die) if the server does not speak proper HTTP. This can only happen when reading chunked data.

=item %headers = $s->get_trailers

After read_entity_body() has returned 0 to indicate end of the entity body, you might call this method to pick up any trailers.

=item $s->_rbuf

Get/set the read buffer content. The read_response_headers() and read_entity_body() methods use an internal buffer which they will look for data before they actually sysread more from the socket itself. If they read too much, the remaining data will be left in this buffer.

=item $s->_rbuf_length

Returns the number of bytes in the read buffer. This should always be the same as:

    length($s->_rbuf)

but might be more efficient.

=back

=head1 SUBCLASSING


The read_response_headers() and read_entity_body() will invoke the sysread() method when they need more data. Subclasses might want to override this method to control how reading takes place.

The object itself is a glob. Subclasses should avoid using hash key names prefixed with C<http_> and C<io_>.

=head1 SEE ALSO
L<LWP>, L<IO::Socket::INET>, L<Net::HTTP::NB>

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=cut

Found in path(s):
* /opt/cola/permits/1138400871_1614281823.51/0/libnet-http-perl-6-06-orig-1-tar-gz/Net-HTTP-6.06/lib/Net/HTTP.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Net::HTTP::NB - Non-blocking HTTP client

=head1 SYNOPSIS
use Net::HTTP::NB;
my $s = Net::HTTP::NB->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/");
use IO::Select;
my $sel = IO::Select->new($s);

READ_HEADER: {
    die "Header timeout" unless $sel->can_read(10);
    my($code, $mess, %h) = $s->read_response_headers;
    redo READ_HEADER unless $code;
}

while (1) {
    die "Body timeout" unless $sel->can_read(10);
    my $buf;
    my $n = $s->read_entity_body($buf, 1024);
last unless $n;
    print $buf;
}

=head1 DESCRIPTION

Same interface as C<Net::HTTP> but it will never try multiple reads
when the read_response_headers() or read_entity_body() methods are
invoked. This make it possible to multiplex multiple Net::HTTP::NB
using select without risk blocking.

If read_response_headers() did not see enough data to complete the
headers an empty list is returned.

If read_entity_body() did not see new entity data in its read
the value -1 is returned.

=head1 SEE ALSO

L<Net::HTTP>

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=cut

Found in path(s):
* /opt/cola/permits/1138400871_1614281823.51/0/libnet-http-perl-6-06-orig-1-tar-gz/Net-HTTP-
  6.06/lib/Net/HTTP/NB.pm
No license file was found, but licenses were detected in source scan.

NAME
    Net::HTTP - Low-level HTTP connection (client)

SYNOPSIS
    use Net::HTTP;
    my $s = Net::HTTP->new(Host => "www.perl.com") || die $@;
    $s->write_request(GET => "/", 'User-Agent' => "Mozilla/5.0");
    my($code, $mess, %h) = $s->read_response_headers;

    while (1) {
        my $buf;
        my $n = $s->read_entity_body($buf, 1024);
        die "read failed: $!" unless defined $n;
last unless $n;
  print $buf;
}

DESCRIPTION

The `Net::HTTP' class is a low-level HTTP client. An instance of the
`Net::HTTP' class represents a connection to an HTTP server. The HTTP
protocol is described in RFC 2616. The `Net::HTTP' class supports
`HTTP/1.0' and `HTTP/1.1'.

`Net::HTTP' is a sub-class of `IO::Socket::INET'. You can mix the
methods described below with reading and writing from the socket
directly. This is not necessary a good idea, unless you know what you
are doing.

The following methods are provided (in addition to those of
`IO::Socket::INET'):

$s = Net::HTTP->new( %options )
  The `Net::HTTP' constructor method takes the same options as
  `IO::Socket::INET''s as well as these:

    Host:            Initial host attribute value
    KeepAlive:       Initial keep_alive attribute value
    SendTE:          Initial send_te attribute_value
    HTTPVersion:     Initial http_version attribute value
    PeerHTTPVersion: Initial peer_http_version attribute value
    MaxLineLength:   Initial max_line_length attribute value
    MaxHeaderLines:  Initial max_header_lines attribute value

  The `Host' option is also the default for `IO::Socket::INET''s
  `PeerAddr'. The `PeerPort' defaults to 80 if not provided.

  The `Listen' option provided by `IO::Socket::INET''s constructor
  method is not allowed.

  If unable to connect to the given HTTP server then the constructor
  returns `undef' and $@ contains the reason. After a successful
  connect, a `Net:HTTP' object is returned.

$s->host
  Get/set the default value of the `Host' header to send. The $host
  must not be set to an empty string (or `undef') for HTTP/1.1.

$s->keep_alive
  Get/set the *keep-alive* value. If this value is TRUE then the
  request will be sent with headers indicating that the server should
  try to keep the connection open so that multiple requests can be
sent.

The actual headers set will depend on the value of the `http_version' and `peer_http_version' attributes.

$s->send_te
Get/set the a value indicating if the request will be sent with a "TE" header to indicate the transfer encodings that the server can choose to use. The list of encodings announced as accepted by this client depends on availability of the following modules: `Compress::Raw::Zlib' for *deflate*, and `IO::Compress::Gunzip' for *gzip*.

$s->http_version
Get/set the HTTP version number that this client should announce. This value can only be set to "1.0" or "1.1". The default is "1.1".

$s->peer_http_version
Get/set the protocol version number of our peer. This value will initially be "1.0", but will be updated by a successful read_response_headers() method call.

$s->max_line_length
Get/set a limit on the length of response line and response header lines. The default is 8192. A value of 0 means no limit.

$s->max_header_length
Get/set a limit on the number of header lines that a response can have. The default is 128. A value of 0 means no limit.

$s->format_request($method, $uri, %headers, [$content])
Format a request message and return it as a string. If the headers do not include a Host header, then a header is inserted with the value of the host attribute. Headers like Connection and Keep-Alive might also be added depending on the status of the keep_alive attribute.

If $content is given (and it is non-empty), then a Content-Length header is automatically added unless it was already present.

$s->write_request($method, $uri, %headers, [$content])
Format and send a request message. Arguments are the same as for format_request(). Returns true if successful.

$s->format_chunk($data)
Returns the string to be written for the given chunk of data.

$s->write_chunk($data)
Will write a new chunk of request entity body data. This method should only be used if the `Transfer-Encoding' header with a value of `chunked' was sent in the request. Note, writing zero-length data is a no-op. Use the write_chunk_eof() method to signal end of entity body data.

Returns true if successful.

$s->format_chunk_eof( %trailers )

Returns the string to be written for signaling EOF when a `Transfer-Encoding' of `chunked' is used.

$s->write_chunk_eof( %trailers )

Will write eof marker for chunked data and optional trailers. Note that trailers should not really be used unless is was signaled with a `Trailer' header.

Returns true if successful.

($code, $mess, %headers) = $s->read_response_headers( %opts )

Read response headers from server and return it. The $code is the 3 digit HTTP status code (see HTTP::Status) and $mess is the textual message that came with it. Headers are then returned as key/value pairs. Since key letter casing is not normalized and the same key can even occur multiple times, assigning these values directly to a hash is not wise. Only the $code is returned if this method is called in scalar context.

As a side effect this method updates the `peer_http_version' attribute.

Options might be passed in as key/value pairs. There are currently only two options supported; `laxed' and `junk_out'.

The `laxed' option will make read_response_headers() more forgiving towards servers that have not learned how to speak HTTP properly. The `laxed' option is a boolean flag, and is enabled by passing in a TRUE value. The `junk_out' option can be used to capture bad header lines when `laxed' is enabled. The value should be an array reference. Bad header lines will be pushed onto the array.

The `laxed' option must be specified in order to communicate with pre-HTTP/1.0 servers that don't describe the response outcome or the data they send back with a header block. For these servers peer_http_version is set to "0.9" and this method returns (200, "Assumed OK").

The method will raise an exception (die) if the server does not
speak proper HTTP or if the `max_line_length' or `max_header_length'
limits are reached. If the `laxed' option is turned on and
`max_line_length' and `max_header_length' checks are turned off,
then no exception will be raised and this method will always return
a response code.

$n = $s->read_entity_body($buf, $size);
Reads chunks of the entity body content. Basically the same
interface as for read() and sysread(), but the buffer offset
argument is not supported yet. This method should only be called
after a successful read_response_headers() call.

The return value will be `undef' on read errors, 0 on EOF, -1 if no
data could be returned this time, otherwise the number of bytes
assigned to $buf. The $buf is set to "" when the return value is -1.

You normally want to retry this call if this function returns either
-1 or `undef' with `$!' as EINTR or EAGAIN (see Errno). EINTR can
happen if the application catches signals and EAGAIN can happen if
you made the socket non-blocking.

This method will raise exceptions (die) if the server does not speak
proper HTTP. This can only happen when reading chunked data.

%headers = $s->get_trailers
After read_entity_body() has returned 0 to indicate end of the
entity body, you might call this method to pick up any trailers.

$s->_rbuf
Get/set the read buffer content. The read_response_headers() and
read_entity_body() methods use an internal buffer which they will
look for data before they actually sysread more from the socket
itself. If they read too much, the remaining data will be left in
this buffer.

$s->_rbuf_length
Returns the number of bytes in the read buffer. This should always
be the same as:

    length($s->_rbuf)

but might be more efficient.

SUBCLASING
The read_response_headers() and read_entity_body() will invoke the
sysread() method when they need more data. Subclasses might want to
override this method to control how reading takes place.
The object itself is a glob. Subclasses should avoid using hash key names prefixed with `http_` and `io_`.

SEE ALSO
LWP, IO::Socket::INET, Net::HTTP::NB

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1.1797 libdigest-hmac-perl 1.03+dfsg-1

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HMAC is used for message integrity checks between two parties that share a secret key, and works in combination with some other Digest algorithm, usually MD5 or SHA-1. The HMAC mechanism is described in RFC 2104.

The Digest::HMAC module follow the common Digest:: interface, but the constructor takes the secret key and the name of some other simple Digest:: module as argument.

You will need perl version 5.004 or better to install these modules. The Digest::MD5 module and Digest::SHA1 module must be installed.

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1.1798 atkmm 2.24.2 1.el7
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1.1801 e2fsprogs 1.42.9-19.el7

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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#
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#
http://www.mozilla.org/MPL/
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`
`echo $(my_dir) | sed -e s;lib/;;"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip:: install-shlibs

install-strip: install

install-shlibs-uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
23-June-2007

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---------------------------------------------------------------------------

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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1.1812 perl 0.77-144.el6
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.","
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
definition: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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<one line to give the program's name and a brief idea of what it does.>
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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }
if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" );}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();
# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq 'now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b\d\(4,\)/s
        or die "Year not found in README copyright message \$copyright_msg";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987\b\d\(4,\)/i
        or die "Copyright statement not found in perl -v output \$output";

    $year;
}
1.1813 hbase-protocol 0.98.15-hadoop2

1.1813.1 Available under license:

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1.1814 jedis 2.9.0

1.1815 make-dfsg 4.0-8.1

1.1815.1 Available under license :

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the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/implementat/\{fstatat|openat|unlinkat\}.h

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hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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1.1817 python-httplib2 0.18.1-3.el7
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1.1820 libtiff 3.9.4 21.el6_8

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1.1821 libtext-levenshtein-perl 0.06~01-2

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=head1 NAME

Text::Levenshtein - An implementation of the Levenshtein edit distance

=head1 SYNOPSIS

use Text::Levenshtein qw(distance);

print distance("foo","four");
# prints "2"

print fastdistance("foo","four");
# prints "2" faster
my @words=('four','foo','bar');
my @distances=distance('foo',@words);

print '@distances';
# prints "2 0 3"

=head1 DESCRIPTION

This module implements the Levenshtein edit distance. The Levenshtein edit distance is a measure of the degree of proximity between two strings. This distance is the number of substitutions, deletions or insertions ("edits") needed to transform one string into the other one (and vice versa). When two strings have distance 0, they are the same.
A good point to start is: <http://www.merriampark.com/ld.htm>

&fastdistance can be called with two scalars and is faster in most cases.

See also Text::LevenshteinXS on CPAN if you do not require a perl-only implementation. It is extremely faster in nearly all cases.

See also Text::WagnerFischer on CPAN for a configurable edit distance, i.e. for configurable costs (weights) for the edits.

=head1 AUTHOR

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=cut

Found in path(s):
* /opt/cola/permits/1138400827_1614281915.49/0/libtext-levenshtein-perl-0-06-01-orig-1.tar-gz/Text-Levenshtein-0.06_01/Levenshtein.pm
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Text::Levenshtein is an implementation of the Levenshtein edit distance in Perl.
A good point to start is: <http://www.merriampark.com/ld.htm>

See also Text::WagnerFischer on CPAN for a configurable edit distance.

PREREQUISITES
This suite requires Perl 5; I tested it only under Perl 5.6.

Text::Levenshtein does not use any nonstandard modules.

INSTALLATION

You install Text::Levenshtein by running these commands in the *nix environment:

perl Makefile.PL
make
make test (optional)
make install

To install Text::Levenshtein in the Win32 environment, use nmake instead of make.
nmake is available for free (in a self extracting executable):
http://download.microsoft.com/download/vc15/Patch/1.52/W95/EN-US/Nmake15.exe
After download and inflate, put nmake.exe and nmake.err in c:\windows\command.

DOCUMENTATION

POD format documentation is included in Levenshtein.pm.
POD is readable with the command:

perldoc Text::Levenshtein

AVAILABILITY

The latest version of Text::Levenshtein is available from the CPAN:
http://search.cpan.org/

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* /opt/cola/permits/1138400827_1614281915.49/0/libtext-levenshtein-perl-0-06-01-orig-1-tar-gz/Text-Levenshtein-0.06_01/README
1.1822 ui-widgets 4.4.0.v20140623020002

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```plaintext
fileFormatVersion: 2
guid: f77549dfddf0141cf93f22327b7d1feb
TextScriptImporter:
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```

1.1823 hk2-api 2.5.0-b30

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GNU MP is a library for arbitrary precision arithmetic, operating on signed integers, rational numbers, and floating point numbers. It has a rich set of functions, and the functions have a regular interface.

GNU MP is designed to be as fast as possible, both for small operands and huge operands. The speed is achieved by using fullwords as the basic arithmetic type, by using fast algorithms, with carefully optimized assembly code for the most common inner loops for lots of CPUs, and by a general emphasis on speed.
(instead of simplicity or elegance).

GNU MP is believed to be faster than any other similar library. Its advantage increases with operand sizes for certain operations, since GNU MP in many cases has asymptotically faster algorithms.

GNU MP is free software and may be freely copied on the terms contained in the files COPYING.LIB and COPYING (most of GNU MP is under the former, some under the latter).

OVERVIEW OF GNU MP

There are five classes of functions in GNU MP.

1. Signed integer arithmetic functions (mpz). These functions are intended to be easy to use, with their regular interface. The associated type is 'mpz_t'.

2. Rational arithmetic functions (mpq). For now, just a small set of functions necessary for basic rational arithmetics. The associated type is 'mpq_t'.

3. Floating-point arithmetic functions (mpf). If the C type 'double' doesn't give enough precision for your application, declare your variables as 'mpf_t' instead, set the precision to any number desired, and call the functions in the mpf class for the arithmetic operations.

4. Positive-integer, hard-to-use, very low overhead functions are in the mpn class. No memory management is performed. The caller must ensure enough space is available for the results. The set of functions is not regular, nor is the calling interface. These functions accept input arguments in the form of pairs consisting of a pointer to the least significant word, and an integral size telling how many limbs (= words) the pointer points to.

Almost all calculations, in the entire package, are made by calling these low-level functions.

5. Berkeley MP compatible functions.

To use these functions, include the file "mp.h". You can test if you are using the GNU version by testing if the symbol __GNU_MP__ is defined.

For more information on how to use GNU MP, please refer to the documentation. It is composed from the file doc/gmp.texi, and can be displayed on the screen or printed. How to do that, as well how to build the library, is described in
REPORTING BUGS

If you find a bug in the library, please make sure to tell us about it!

You should first check the GNU MP web pages at http://gmplib.org/, under “Status of the current release”. There will be patches for all known serious bugs there.

Report bugs to gmp-bugs@gmplib.org. What information is needed in a useful bug report is described in the manual. The same address can be used for suggesting modifications and enhancements.

------------
Local variables:
mode: text
fill-column: 78
End:

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Version 3, 29 June 2007

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1.1825 pth 2.0.7 23.el7

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```
Ian Fleming was a UNIX fan!
How do I know? Well, James Bond
had the (license to kill) number 007,
i.e., he could execute anyone!
```

GNU Pth - The GNU Portable Threads

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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# canonicalize-lgpl.m4 serial 5
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dnl This file is free software; the Free Software Foundation 
dnl gives unlimited permission to copy and/or distribute it, 
dnl with or without modifications, as long as this notice is preserved.

AC_DEFUN([gl_CANONICALIZE_LGPL],

[ 
 dnl Do this replacement check manually because the file name is shorter 
 dnl than the function name.
 AC_CHECK_DECLS_ONCE([canonicalize_file_name])
 AC_CHECK_FUNCS_ONCE([canonicalize_file_name])
 if test $ac_cv_func_canonicalize_file_name = no; then
  AC_LIBOBJ([canonicalize-lgpl])
  ACDEFINE([realpath], [rpl_realpath],
   [Define to a replacement function name for realpath().])
  gl_PREREQ_CANONICALIZE_LGPL
 fi
 ])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],

[ 
 AC_CHECK_DECLS_ONCE([canonicalize_file_name])
 AC_CHECK_FUNCS_ONCE([canonicalize_file_name])
 gl_PREREQ_CANONICALIZE_LGPL
 ])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],

[ 
 AC_CHECK_HEADERS_ONCE([sys/param.h unistd.h])
 AC_CHECK_FUNCS_ONCE([getcwd readlink])
 ])

Open Source Used In Tetration 3.5.1 18603
1.1835 scala-reflect 2.11.8

1.1836 thrift 0.7.0

1.1836.1 Available under license:

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compiler/cpp/src/generate/t_ocaml_generator.cc
Open Source Used In Tetration 3.5.1 18609

compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/thriftl.II
compiler/cpp/src/thrifty.II
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/Protocol.cs
lib/csharp/src/Protocol/ProtocolException.cs
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lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift
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compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftll.ll
compiler/cpp/src/thirfty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TLList.cs
lib/csharp/src/Protocol/TMap.cs
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lib/csharp/src/Protocol/TTyType.cs
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lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/ThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
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lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTTransport.cs
lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
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* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-
jar/com/beust/jcommander/ParametersDelegate.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-
jar/com/beust/jcommander/Parameter.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-
jar/com/beust/jcommander/converters/IntegerConverter.java
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jar/com/beust/jcommander/Parameters.java
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jar/com/beust/jcommander/internal/DefaultConverterFactory.java
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  jar/com/beust/jcommander/IParameterValidator2.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-
  jar/com/beust/jcommander/IParameterValidator.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-
  jar/com/beust/jcommander/validators/NoValueValidator.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-
  jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-
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1.1838 python-pygments 1.1.1-2.el6
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1.1839 orc 0.4.26 1.el7

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java
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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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This software uses the SSL libraries from the Jetty project written by mortbay.org.
Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.1844 slf4j 1.7.7
1.1844.1 Available under license :
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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

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but WITHOUT ANY WARRANTY; without even the implied warranty of
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You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19yy name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<one line to give the library's name and a brief idea of what it does.>
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1849 at-spi2-atk 2.26.2 1.el7

1.1850 libconfig 1.4.9 5.el7

1.1850.1 Available under license:

This package was debianized by Jose Luis Tallon <jltallon@adv-solutions.net> on
Tue, 10 Oct 2006 01:42:09 +0200.

It was downloaded from http://www.hyperrealm.com/libconfig

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Upstream Author: Mark A. Lindner

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Preamble

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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@center Preamble
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- Accompany the work with a written offer, valid for at least three years,
to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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/* * Parts of this software have been adapted from the libpng package.      * *
/* * Although this library supports all features from the PNG specification * *
/* * (as MNG descends from it) it does not require the libpng package.      * *
/* * It does require the zlib library and optionally the IJG jpeg library,  * *
/* * and/or the "little-cms" library by Marti Maria (depending on the       * *
/* * inclusion of support for JNG and Full-Color-Management respectively.   * *
/* * This library's function is primarily to read and display MNG           * *
/* * animations. It is not meant as a full-featured image-editing           * *
/* * component! It does however offer creation and editing functionality    * *
/* * at the chunk level.                                                   * *
/* * (future modifications may include some more support for creation      * *
/* * and or editing)                                                       * *
/* * ****************************************************************************

MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers  <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen Python Labs team. In October of the same year, the Python Labs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The `mod` '_random' module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
---------------------------

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Select kqueue
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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

-------

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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NAME
   HTTP::Date - date conversion routines

SYNOPSIS

use HTTP::Date;

$string = time2str($time);    # Format as GMT ASCII time
$time = str2time($string);    # convert ASCII date to machine time

DESCRIPTION

This module provides functions that deal the date formats used by the HTTP protocol (and then some more). Only the first two functions, time2str() and str2time(), are exported by default.

time2str( [$time] )
   The time2str() function converts a machine time (seconds since epoch) to a string. If the function is called without an argument or with an undefined argument, it will use the current time.

   The string returned is in the format preferred for the HTTP protocol. This is a fixed length subset of the format defined by RFC 1123, represented in Universal Time (GMT). An example of a time stamp in this format is:

   Sun, 06 Nov 1994 08:49:37 GMT

str2time( $str [, $zone] )
The `str2time()` function converts a string to machine time. It returns `undef` if the format of `$str` is unrecognized, otherwise whatever the `Time::Local` functions can make out of the parsed time. Dates before the system's epoch may not work on all operating systems. The time formats recognized are the same as for `parse_date()`.

The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.

If the zone is not ""GMT"" or numerical (like ""-0800"" or ""+0100""), then the `Time::Zone` module must be installed in order to get the date recognized.

`parse_date( $str )`

This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year returned will not have the number 1900 subtracted from it and the $month numbers start with 1.

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned.

The function is able to parse the following formats:

"Thu Feb 3 17:03:55 GMT 1994" -- ctime(3) format
"Thu Feb 3 00:00:00 1994", -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT" -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT" -- broken rfc850 HTTP format

"03/Feb/1994:17:03:55 -0700" -- common logfile format
"09 Feb 1994 22:23:32 GMT" -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT" -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT" -- broken rfc850 format (no weekday)

"1994-02-03 14:15:29 -0100" -- ISO 8601 format
"1994-02-03 14:15:29" -- zone is optional
"1994-02-03" -- only date
"1994-02-03T14:15:29" -- Use T as separator
"19940203T141529Z" -- ISO 8601 compact format
"19940203" -- only date
"08-Feb-94" -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994" -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994" -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994" -- common logfile format (no time, no offset)

"Feb 3 1994" -- Unix 'ls -l' format
"Feb 3 17:03" -- Unix 'ls -l' format

"11-15-96 03:52PM" -- Windows 'dir' format

The parser ignores leading and trailing whitespace. It also allow the seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first matching date *before* current month. If the year is given with only 2 digits, then parse_date() will select the century that makes the year closest to the current date.

time2iso( [Stime] )
    Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted string representing time in the local time zone.

time2isoz( [Stime] )
    Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted string representing Universal Time.

SEE ALSO
    perlfunc, Time::Zone

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HTTP::Date - date conversion routines

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=item str2time( $str [, $zone] )

The str2time() function converts a string to machine time. It returns C<undef> if the format of $str is unrecognized, otherwise whatever the C<Time::Local> functions can make out of the parsed time. Dates before the system's epoch may not work on all operating systems. The time formats recognized are the same as for parse_date().

The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.
If the zone is not "C<GMT>" or numerical (like "C<-0800>" or "C<+0100>"), then the C<Time::Zone> module must be installed in order to get the date recognized.

=item parse_date( $str )

This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year will be the full 4-digit year, and $month numbers start with 1 (for January).

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

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"1994-02-03 14:15:29"          -- zone is optional
"1994-02-03"                    -- only date
"1994-02-03T14:15:29"          -- Use T as separator
"19940203T141529Z"             -- ISO 8601 compact format
"19940203"                     -- only date

"08-Feb-94"                     -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994"                   -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994"                   -- proposed new HTTP format (no weekday, no time)
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=item time2iso( [time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted string representing time in the local time zone.

=item time2isoz( [time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted string representing Universal Time.

=back

=head1 SEE ALSO

L<perlfunc/time>, L<Time::Zone>

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jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/bootstrap/FailedChannel.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/channel/PendingBytesTracker.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/channel/internal/package-info.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
jar/io/netty/channel/internal/ChannelUtils.java
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  jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/AbstractEventLoop.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/ReflectiveChannelFactory.java

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  jar/io/netty/channel/socket/DuplexChannel.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/SelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-
  jar/io/netty/channel/PreferHeapByteBufAllocator.java
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/*
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*
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {[@link ChannelPipeline]}.  
 *  
 * <h3>Sub-types</h3>
 *  
 *[@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes: 
 *  
 * <ul>
 * <li>`[@link ChannelInboundHandler]` to handle inbound I/O events, and</li>
 * <li>`[@link ChannelOutboundHandler]` to handle outbound I/O operations.</li>
 * </ul>
 *  
 * Alternatively, the following adapter classes are provided for your convenience: 
 *  
 * <ul>
 * <li>`[@link ChannelInboundHandlerAdapter]` to handle inbound I/O events</li>
 * <li>`[@link ChannelOutboundHandlerAdapter]` to handle outbound I/O operations, and</li>
 * <li>`[@link ChannelDuplexHandler]` to handle both inbound and outbound events</li>
 * </ul>
 *  
 * For more information, please refer to the documentation of each subtype. 
 *  
 * <p>
 *  
 * <h3>The context object</h3>
 *  
 * A `[@link ChannelHandlerContext]` is provided with a `[@link ChannelHandlerContext]` object. A `[@link ChannelHandlerContext]` is supposed to interact with the 
 * `[@link ChannelPipeline]` it belongs to via a context object. Using the 
 * context object, the `[@link ChannelHandlerContext]` can pass events upstream or 
 * downstream, modify the pipeline dynamically, or store the information 
 * (using `[@link AttributeKey]`)s which is specific to the handler. 
 *  
 * <h3>State management</h3>
 *  
 */
* A `{@link ChannelHandler}` often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
  * `<pre>
  * public interface Message {
  *   // your methods here
  * }
  *
  * public class DataServerHandler extends `{@link SimpleChannelInboundHandler}<Message>` {
  *
  *   <b>private boolean loggedIn;</b>
  *
  *   { @code @Override }
  *   public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
  *     { @link Channel} ch = e.getChannel();
  *     if (message instanceof LoginMessage) {
  *       authenticate((LoginMessage) message);
  *       <b>loggedIn = true;</b>
  *     } else (message instanceof GetDataMessage) {
  *       if (<b>loggedIn</b>) {
  *         ch.write(fetchSecret((GetDataMessage) message));
  *       } else {
  *         fail();
  *       }
  *     }
  *   }
  *
  *   ...
  *
  * }<\/pre>
  *
  * Because the handler instance has a state variable which is dedicated to
  * one connection, you have to create a new handler instance for each new
  * channel to avoid a race condition where a unauthenticated client can get
  * the confidential information:
  * `<pre>
  * // Create a new handler instance per channel.
  * // See `{@link ChannelInitializer}#initChannel(Channel)`.
  * public class DataServerInitializer extends `{@link ChannelInitializer}<@link Channel>` {
  *
  *   { @code @Override }
  *   public void initChannel({@link Channel} channel) {
  *     channel.pipeline().addLast("handler", <b>new DataServerHandler();</b>);
  *   }
  *
  * }<\/pre>
  *
  * `<h4>Using `{@link AttributeKey}`s</h4>
  *
  * Although it's recommended to use member variables to store the state of a
  * handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]:
* <pre>
* public interface Message {
*   // your methods here
* }
* </pre>
* [{@code @Sharable}
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {
*   private final [@link AttributeKey]@{@link Boolean} auth =
*     AttributeKey.valueOf("auth");
*   
*   {@code @Override}
*   public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
*     Attribute<{@link Boolean}> attr = ctx.attr(auth);
*     Channel ch = ctx.channel();
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*         attr.set(true);
*     } else if (message instanceof GetDataMessage) {
*         if (Boolean.TRUE.equals(attr.get())) {
*             ch.write(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
*   }
*   ...
* }
* </pre>
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends [@link ChannelInitializer]@{@link Channel}&gt; {
*   private static final DataServerHandler SHARED = new DataServerHandler();
*   
*   {@code @Override}
*   public void initChannel(@link Channel) channel) {
*     channel.pipeline().addLast("handler", SHARED);
*   }
* }
* </pre>
* <h4>The {@code @Sharable} annotation</h4>
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.
*<p>
* If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [@link ChannelPipeline]s multiple times without a race condition.
*<p>
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
*<p>
* This annotation is provided for documentation purpose, just like the JCIP annotations</a>.
*<p>
*<h3>Additional resources worth reading</h3>
*<p>
* Please refer to the [@link ChannelHandler], and [@link ChannelPipeline] to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
*/

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* /opt/cola/permits/1126867231_1614292206.88/0/jetty-server-9-2-6-v20141205-sources-1-jar/org/eclipse/jetty/server/package-info.java
* /opt/cola/permits/1126867231_1614292206.88/0/jetty-server-9-2-6-v20141205-sources-1-jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /opt/cola/permits/1126867231_1614292206.88/0/jetty-server-9-2-6-v20141205-sources-1-jar/org/eclipse/jetty/server/session/AbstractSessionManagerMBean.java
* /opt/cola/permits/1126867231_1614292206.88/0/jetty-server-9-2-6-v20141205-sources-1-jar/org/eclipse/jetty/server/handler/ErrorHandler.java
* /opt/cola/permits/1126867231_1614292206.88/0/jetty-server-9-2-6-v20141205-sources-1-jar/org/eclipse/jetty/server/session/AbstractSessionManager.java
* /opt/cola/permits/1126867231_1614292206.88/0/jetty-server-9-2-6-v20141205-sources-1-jar/org/eclipse/jetty/server/session/AbstractSessionConnectionFactory.java
* /opt/cola/permits/1126867231_1614292206.88/0/jetty-server-9-2-6-v20141205-sources-1-jar/org/eclipse/jetty/server/session/SessionMapping.java
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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */

Found in path(s):
*/

1.1870 libusb-compat 0.1.12-25

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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When a program is linked with a library, whether statically or using
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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 * Encodes and decodes to and from Base64 notation.
 * Example:
 *<code>String encoded = Base64.encode( myByteArray );</code>
 *<br />
 *<code>byte[] myByteArray = Base64.decode( encoded );</code>
 *<p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * <tt>encodeBytes( bytes, options )</tt> the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds,
 * and encoding using the URL-safe and Ordered dialects.</p>
 *<p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add line feeds unless explicitly told
 * to do so. I've got Base64 set to this behavior now, although earlier versions
 * broke lines by default.</p>
 *<p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 *<code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
 *<p>to compress the data before encoding it and then making the output have newline characters.</p>
 *<p>Also...</p>
 *<code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>
 *<p>Change Log:</p>
 *<ul>
 *<li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
 * value 01111111, which is an invalid base 64 character but should not
 * throw an ArrayIndexOutOfBoundsException either. Led to discovery of
 * mishandling (or potential for better handling) of other bad input
 * characters. You should now get an IOException if you try decoding
 * something that has bad characters in it.</li>
 *<li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
  * contained an extra (null) byte that made it into the string.</li>
* <li>v2.3.5 - Fixed bug in [@link #encodeFromFile] where estimated buffer size
  * was wrong for files of size 31, 34, and 37 bytes.</li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
  * the Base64.OutputStream closed the Base64 encoding (by padding with equals
  * signs) too soon. Also added an option to suppress the automatic decoding
  * of gzipped streams. Also added experimental support for specifying a
  * class loader when using the
  * {@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)}
  * method.</li>
* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
  * footprint with its CharEncoders and so forth. Fixed some javadocs that were
  * inconsistent. Removed imports and specified things like java.io.IOException
  * explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
  * final encoded data will be so that the code doesn't have to create two output
  * arrays: an oversized initial one and then a final, exact-sized one. Big win
  * when using the {@link #encodeBytesToBytes(byte[])} family of methods (and not
  * using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added {@link #encodeBytesToBytes(byte[], int, int, int)} and some
  * similar helper methods to be more efficient with memory by not returning a
  * String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
  * and bug fixes queued up and finally executed. Thanks to everyone who sent
  * me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
  * Much bad coding was cleaned up including throwing exceptions where necessary
  * instead of returning null values or something similar. Here are some changes
  * that may affect you:
  * <ul>
  *    <li><em>Does not break lines, by default.</em> This is to keep in compliance with
  *        RFC3548</a>.</li>
  *    <li>Throws exceptions instead of returning null values.</li>
  *        Because some operations
  *        (especially those that may permit the GZIP option) use IO streams, there
  *        is a possibility of an java.io.IOException being thrown. After some discussion and
  *        thought, I've changed the behavior of the methods to throw java.io.IOExceptions
  *        rather than return null if ever there's an error. I think this is more
  *        appropriate, though it will require some changes to your code. Sorry,
  *        it should have been done this way to begin with.</li>
  *    <li>Removed all references to System.out, System.err, and the like.</li>
  *    <li>Throws NullPointerExceptions and IllegalArgumentExceptions
  *        as needed
  *        such as when passed arrays are null or offsets are invalid.</li>
  *    <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
  *        This was especially annoying before for people who were thorough in their
  *        own projects and then had gobs of javadoc warnings on this file.</li>
  *  </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~&lt; 40 bytes).

* v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:

* The default is RFC3548 format.

* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. http://www.faqs.org/rfcs/rfc3548.html

* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfc1940.html

* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.

* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).

* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.

* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (an int that you "OR" together).

* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).

* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).

* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.

* v1.4 - Added helper methods to read/write files.

* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.

* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.

* v1.3.3 - Fixed I/O streams which were totally messed up.

* v1.3.2 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed). Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).

* v1.3.1 - Fixed I/O streams which were totally messed up.

* v1.3 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.2 - Fixed when "improperly padded stream" error was thrown at the wrong time.

* v1.1.6 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.1.5 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.1.4 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.1.3 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.1 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.0 - GZIP-compress objects before encoding them. Added the ability to GZip-compress objects before encoding them.

* v0.9 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.8 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.7 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.6 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.5 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.4 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.3 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.2 - Fixed OutputStream.flush() so that 'position' is reset.

* v0.1 - Fixed OutputStream.flush() so that 'position' is reset.

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* 
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

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* /opt/cola/permits/1135864105_1613617959.84/0/base64-2-3-8-sources-3-jar/net/iharder/Base64.java

1.1876 reflections 0.9.11

1.1877 pyxdg 0.25 4

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This package was debianized by Sebastien Bacher &lt;seb128@debian.org&gt; on Sat, 13 Mar 2004 14:17:48 +0100.

It was downloaded from http://freedesktop.org/Software/pyxdg

Upstream Authors: Sergey Kuleshov &lt;svyatogor@gentoo.org&gt; Heinrich Wendel &lt;lanius@gentoo.org&gt;

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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/AWSRefreshableSessionCredentials.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/AWSStaticCredentialsProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/profile/internal/ProfileStaticCredentialsProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/profile/path/config/SharedConfigDefaultLocationProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/presign/PresignerParams.java
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jar/com/amazonaws/protocol/json/internal/ValueToStringConverters.java

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jar/com/amazonaws/internal/ResettableInputStream.java
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jar/com/amazonaws/protocol/json/SdkStructuredCborFactory.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-
jar/com/amazonaws/protocol/json/SdkStructuredPlainJsonFactory.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/InMemoryRegionsProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/partitions/RegionMetadataProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/RegionImpl.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/RegionMetadataFactory.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/InMemoryRegionImpl.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/partitions/PartitionsLoader.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/protocol/json/SdkIonGenerator.java
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jar/com/amazonaws/partitions/model/Endpoint.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-
jar/com/amazonaws/internal/SdkSSLContext.java
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jar/com/amazonaws/ImmutableRequest.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/util/LengthCheckInputStream.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/internal/FIFOCache.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/internal/SdkSSLSocket.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/event/ProgressTracker.java
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1.1883 json-path 2.4.0

1.1884 libguestfs 1.38.2 12.el7

1.1884.1 Available under license:

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(* virt-sparsify
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*)

(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf

open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils

open Utils
open Cmdline

module G = Guestfs

type tmp_place =
let run indisk outdisk check_tmpdir compress convert format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create * temporary files (including the potentially massive overlay file), we * need to catch SIGINT (^C) and exit cleanly so the temporary file * goes away. Note that we don't delete temporaries in the signal * handler. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* What should the output format be? If the user specified an * input format, use that, else detect it from the source image. *)
let output_format =
  match convert with
  | Some fmt -> fmt (* user specified output conversion *)
  | None ->
    match format with
    | Some fmt -> fmt (* user specified input format, use that *)
    | None ->
      (* Don't know, so we must autodetect. *)
      match (open_guestfs ())#disk_format indisk with
      | "unknown" ->
        error (f_"cannot detect input disk format; use the --format parameter")
      | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
  match tmp_param with
  | None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub file 9 (String.length file - 9) in
    if not (Sys.file_exists file) then
      error (f_"--tmp prebuilt:file: %s: file does not exist") file;
    let g = open_guestfs () in
    if g#disk_format file <> "qcow2" then
      error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
    if not (g#disk_has_backing_file file) then
error (f_"--tmp prebuilt:file: %s: file does not have backing file")

file;
Prebuilt_file file
| Some path ->
error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
| Directory tmpdir ->
(* Get virtual size of the input disk. *)
let virtual_size = (open_guestfs ()#disk_virtual_size indisk in
ddebug "input disk virtual size is %Ld bytes (%s)"
    virtual_size (human_size virtual_size);
let print_warning () =
    let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
    let extra_needed = virtual_size ^ free_space in
    if extra_needed > 0L then (    warning (f_"%
There may not be enough free space on %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s. Free: %s. May need another %s.

Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

%
"
    tmpdir (human_size virtual_size)
    (human_size free_space) (human_size extra_needed);
    true
    ) else false

in

match check_tmpdir with
| 'Ignore -> ()
| 'Continue -> ignore (print_warning ())
| 'Warn ->
if print_warning () then (    eprintf "Press RETURN to continue or ^C to quit.\n%!");    ignore (read_line ());
| 'Fail ->
if print_warning () then ( 
  eprintf "Exiting because --check-tmpdir=fail was set.\n!";
  exit 2
 )
);

(* Create the temporary overlay file. *)
let overlaydisk = 
  (match tmp_place with
   | Directory tmpdir ->
     message (f_"Create overlay file in %s to protect source disk") tmpdir
   | Block_device device ->
     message (f_"Create overlay device %s to protect source disk") device
   | Prebuilt_file file ->
     message (f_"Using prebuilt file %s as overlay") file
  );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp = 
  let g = open_guestfs () in
  g#disk_create
    ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one
  in

  match tmp_place with
   | Directory temp_dir ->
     let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
     unlink_on_exit tmp;
     create tmp;
     tmp
   | Block_device device ->
     create device;
     device
   | Prebuilt_file file ->
     (* Don't create anything, use the prebuilt file as overlay. *)
     file in

     message (f_"Examine source disk");

     (* Connect to libguestfs. *)
     let g = 
     let g = open_guestfs () in

     (* Note that the temporary overlay disk is always qcow2 format. *)
     g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;
if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
g#launch ();

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount, *
 * and selected swap partitions.  *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
  let is_btrfs = List.mem fs btrfs_filesystems in
  if is_btrfs then (try
    let vol_info = g#btrfs_subvolume_show mp in
    String.find (List.assoc "Flags" vol_info) "readonly" <> -1
    with G.Error _ -> false
  ) else false
  with Not_found -> false
in

let is_readonly_device mp =

Open Source Used In Tetration 3.5.1 19005
let statvfs = g#statvfs mp in
let flags = statvfs.G.flag in
(* 0x01 is ST_RDONLY in Linux' GNU libc. *)
flags <> -1_L && (flags &^ 0x1_L) <> 0_L

in

List.iter (fun fs ->
    if not (is_ignored fs) && not (is_read_only_lv fs) then (if List.mem fs zeroes then (message (f_"Zeroing %s") fs;
                                                                                           g#zero_device fs
                                                                    ) else (let mounted =
                                                                              try g#mount fs "/"; true
                                                                              with _ -> false in
                                                                          if mounted then (if is_readonly_btrfs_snapshot fs "/") then (info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
                                                                                       ) else if is_readonly_device "/") then (info (f_"Skipping %s, as it is a read-only device.") fs;
                                                                                       ) else (message (f_"Fill free space in %s with zero") fs;
                                                                g#zero_free_space "/
                                                            )
                                                                    )
                                                                        )
    ) else (let is_linux_x86_swap =
                  try g#pread_device fs 10 4086L = "SWAPSPACE2"
                  with _ -> false in
              if is_linux_x86_swap then (message (f_"Clearing Linux swap on %s") fs;
                                            (* Don't use mkswap. Just preserve the header containing
                                             * the label, UUID and swap format version (libguestfs
                                             * mkswap may differ from guest's own).
                                             *)
                                            let header = g#pread_device fs 4096 0L in
                                            g#zero_device fs;
                                            if g#pwrite_device fs header 0L <> 4096 then
                                            )
            )


error (f_"fwrite: short write restoring swap partition header")
)
)
);

g#umount_all ()
)
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (fun vg ->
  if not (List.mem vg ignores) then (let lvname = String.random8 () in
  let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in

  let created =
    try g#lvcreate_free lvname vg 100; true
    with _ -> false in

  if created then (message (f_"Fill free space in volgroup %s with zero") vg;

  g#zero_device lvdev;
  g#sync ();
  g#lvremove lvdev
  )
  )
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the * destination and automatically does sparsification. *)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s %s %s %s %s"
(quote output_format)
(if compress then " -c" else "")
(match option with
  | None -> ""
  | Some option -> " -o " ^ quote option)
(quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
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fake
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*)

(** This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string option -> string option -> string list -> unit

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1.1885 bash-completion 2.1-4ubuntu0.2

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=back

=head1 BUGS

Calls C<<Test::Builder->no_ending>> turning off the ending tests. This is needed as otherwise it will trip out because we've run more tests than we strictly should have and it'll register any failures we had that we were testing for as real failures.

The color function doesn't work unless B<Term::ANSIColor> is
compatible with your terminal.

Bugs (and requests for new features) can be reported to the author through the CPAN RT system:

=head1 AUTHOR

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=head1 NOTES

Thanks to Richard Clamp E<lt>richardc@unixbeard.netE<gt> for letting me use his testing system to try this module out on.

=head1 SEE ALSO

L<Test::Builder>, L<Test::Builder::Tester::Color>, L<Test::More>.

=cut

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=head1 NAME

Test::Tutorial - A tutorial about writing really basic tests

=head1 DESCRIPTION

I<AHHHHHHHH!!!! NOT TESTING! Anything but testing!
Beat me, whip me, send me to Detroit, but don't make me write tests!>

I<*sob*>?

I<Besides, I don't know how to write the damned things.>
Is this you? Is writing tests right up there with writing documentation and having your fingernails pulled out? Did you open up a test and read

    ####### We start with some black magic

and decide that's quite enough for you?

It's ok. That's all gone now. We've done all the black magic for you. And here are the tricks...

=head2 Nuts and bolts of testing.

Here's the most basic test program.

    #!/usr/bin/perl -w

    print "1..1
";

    print 1 + 1 == 2 ? "ok 1\n" : "not ok 1\n";

since 1 + 1 is 2, it prints:

    1..1
    ok 1

What this says is: C<1..1> "I'm going to run one test." [1] C<ok 1> "The first test passed". And that's about all magic there is to testing. Your basic unit of testing is the I<ok>. For each thing you test, an C<ok> is printed. Simple. B<Test::Harness> interprets your test results to determine if you succeeded or failed (more on that later).

Writing all these print statements rapidly gets tedious. Fortunately, there's B<Test::Simple>. It has one function, C<ok>().

    #!/usr/bin/perl -w

    use Test::Simple tests => 1;

    ok( 1 + 1 == 2 );

and that does the same thing as the code above. C<ok()> is the backbone of Perl testing, and we'll be using it instead of roll-your-own from here on. If C<ok()> gets a true value, the test passes. False, it fails.

#!/usr/bin/perl -w

use Test::Simple tests => 2;
ok( 1 + 1 == 2 );
ok( 2 + 2 == 5 );

from that comes

1..2
ok 1
not ok 2
#   Failed test (test.pl at line 5)
# Looks like you failed 1 tests of 2.

C<1..2> "I'm going to run two tests." This number is used to ensure your test program ran all the way through and didn't die or skip some tests. C<ok 1> "The first test passed." C<not ok 2> "The second test failed". Test::Simple helpfully prints out some extra commentary about your tests.

It's not scary. Come, hold my hand. We're going to give an example of testing a module. For our example, we'll be testing a date library, B<Date::ICal>. It's on CPAN, so download a copy and follow along. [2]

=head2 Where to start?

This is the hardest part of testing, where do you start? People often get overwhelmed at the apparent enormity of the task of testing a whole module. Best place to start is at the beginning. Date::ICal is an object-oriented module, and that means you start by making an object. So we test C<new()>.

#!/usr/bin/perl -w

use Test::Simple tests => 2;

use Date::ICal;

my $ical = Date::ICal->new;  # create an object
ok( defined $ical );         # check that we got something
ok( $ical->isa('Date::ICal') ); # and it's the right class

run that and you should get:

1..2
ok 1
ok 2

congratulations, you've written your first useful test.

=head2 Names

That output isn't terribly descriptive, is it? When you have two
tests you can figure out which one is #2, but what if you have 102?

Each test can be given a little descriptive name as the second
argument to C<ok()>.

use Test::Simple tests => 2;
ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );

So now you'd see...

1..2
ok 1 - new() returned something
ok 2 - and it's the right class

=head2 Test the manual

Simplest way to build up a decent testing suite is to just test what
the manual says it does. [3] Let's pull something out of the
L<Date::ICal/SYNOPSIS> and test that all its bits work.

#!/usr/bin/perl -w
use Test::Simple tests => 8;
use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
hour => 16, min => 12, sec => 47,
tz =>'0530' );

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal')," and it's the right class"");
ok( $ical->sec  == 47, ' sec()' );
ok( $ical->min  == 12, ' min()' );
ok( $ical->hour  == 16, ' hour()' );
ok( $ical->day  == 17, ' day()' );
run that and you get:

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
  # Failed test ( - at line 16)
ok 7 - month()
ok 8 - year()
  # Looks like you failed 1 tests of 8.

Whoops, a failure! [4] Test::Simple helpfully lets us know on what line
the failure occurred, but not much else.  We were supposed to get 17,
but we didn't.  What did we get??  Dunno.  We'll have to re-run the
test in the debugger or throw in some print statements to find out.

Instead, we'll switch from B<Test::Simple> to B<Test::More>.  B<Test::More>
does everything B<Test::Simple> does, and more!  In fact, Test::More does
things I<exactly> the way Test::Simple does.  You can literally swap
Test::Simple out and put Test::More in its place.  That's just what
we're going to do.

Test::More does more than Test::Simple.  The most important difference
at this point is it provides more informative ways to say "ok".
Although you can write almost any test with a generic C<ok()> function, it
can't tell you what went wrong.  Instead, we'll use the C<is()> function, which lets us declare that something is supposed to be the
same as something else:

#!/usr/bin/perl -w

use Test::More tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
  hour => 16, min => 12, sec => 47,
  tz => '0530' );

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
is( $ical->sec, 47, 'sec()' );
is( $ical->min, 12, '  min()' );
is( $ical->hour, 16, '  hour()' );
is( $ical->day, 17, '  day()' );
is( $ical->month, 10, '  month()' );
is( $ical->year, 1964, '  year()' );

"Is C<$ical-E<gt>sec> 47?"  "Is C<$ical-E<gt>min> 12?"  With C<is()> in place, you get some more information

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
   #  Failed test (- at line 16)
   #     got: '16'
   #     expected: '17'
ok 7 - month()
ok 8 - year()
   # Looks like you failed 1 tests of 8.

letting us know that C<$ical-E<gt>day> returned 16, but we expected 17. A quick check shows that the code is working fine, we made a mistake when writing up the tests. Just change it to:

is( $ical->day, 16, '  day()' );

and everything works.

So any time you're doing a "this equals that" sort of test, use C<is()>.
It even works on arrays. The test is always in scalar context, so you can test how many elements are in a list this way. [5]

is( @foo, 5, 'foo has 5 elements' );

=head2 Sometimes the tests are wrong

Which brings us to a very important lesson. Code has bugs. Tests are code. Ergo, tests have bugs. A failing test could mean a bug in the code, but don't discount the possibility that the test is wrong.

On the flip side, don't be tempted to prematurely declare a test incorrect just because you're having trouble finding the bug. Invalidating a test isn't something to be taken lightly, and don't use it as a cop out to avoid work.
Testing lots of values

We're going to be wanting to test a lot of dates here, trying to trick the code with lots of different edge cases. Does it work before 1970? After 2038? Before 1904? Do years after 10,000 give it trouble? Does it get leap years right? We could keep repeating the code above, or we could set up a little try/expect loop.

    use Test::More tests => 32;
    use Date::ICal;

    my %ICal_Dates = (
        # An ICal string     And the year, month, day
        #                    hour, minute and second we expect.
        '19971024T120000' =>    # from the docs.
            [ 1997, 10, 24, 12, 0, 0 ],
        '20390123T232832' =>    # after the Unix epoch
            [ 2039, 1, 23, 23, 28, 32 ],
        '19671225T000000' =>    # before the Unix epoch
            [ 1967, 12, 25, 0, 0, 0 ],
        '18990505T232323' =>    # before the MacOS epoch
            [ 1899, 5, 23, 23, 23 ],
    );

    while( my($ical_str, $expect) = each %ICal_Dates ) {
        my $ical = Date::ICal->new( ical => $ical_str );
        ok( defined $ical,            "new(ical => '$ical_str')" );
        ok($ical->isa('Date::ICal'), "  and it's the right class" );
        is( $ical->year,    $expect->[0],     '  year()'  );
        is( $ical->month,   $expect->[1],     '  month()' );
        is( $ical->day,    $expect->[2],     '  day()'   );
        is( $ical->hour,    $expect->[3],     '  hour()'  );
        is( $ical->min,     $expect->[4],     '  min()'   );
        is( $ical->sec,     $expect->[5],     '  sec()'   );
    }

So now we can test bunches of dates by just adding them to C<%ICal_Dates>. Now that it's less work to test with more dates, you'll be inclined to just throw more in as you think of them. Only problem is, every time we add to that we have to keep adjusting the C<use Test::More tests =E<gt> ##> line. That can rapidly get annoying. There's two ways to make this work better.
First, we can calculate the plan dynamically using the \texttt{plan()} function.

\begin{verbatim}
use Test::More;
use Date::ICal;

my %ICal_Dates = (
    ...same as before...
);

# For each key in the hash we're running 8 tests.
plan tests => keys(%ICal_Dates) * 8;

...and then your tests...
\end{verbatim}

Or to be even more flexible, we use \texttt{no_plan}. This means we're just running some tests, don't know how many. \[6\]

\begin{verbatim}
use Test::More 'no_plan';  # instead of tests => 32

now we can just add tests and not have to do all sorts of math to figure out how many we're running.
\end{verbatim}

=head2 Informative names

Take a look at this line here

\begin{verbatim}
ok( defined $ical,        "new(ical => '$ical_str')" );
\end{verbatim}

we've added more detail about what we're testing and the ICal string itself we're trying out to the name. So you get results like:

\begin{verbatim}
ok 25 - new(ical => '19971024T120000')
ok 26 - and it's the right class
ok 27 - year()
ok 28 - month()
ok 29 - day()
ok 30 - hour()
ok 31 - min()
ok 32 - sec()
\end{verbatim}

if something in there fails, you'll know which one it was and that will make tracking down the problem easier. So try to put a bit of debugging information into the test names.

Describe what the tests test, to make debugging a failed test easier for you or for the next person who runs your test.
Skipping tests

Poking around in the existing Date::ICal tests, I found this in
File:t01sanity.t [7]

#!/usr/bin/perl -w

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

# XXX This will only work on unix systems.
is( $t1->ical, '19700101Z', "epoch to ical" );

is( $t1->year, 1970, "year()" );
is( $t1->month, 1, "month()" );
is( $t1->day, 1, "day()" );

# like the tests above, but starting with ical instead of epoch
my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
is( $t2->epoch, 0, "and back to ICal" );

The beginning of the epoch is different on most non-Unix operating
systems [8]. Even though Perl smooths out the differences for the
most part, certain ports do it differently. MacPerl is one off the
top of my head. [9] So rather than just putting a comment in the test,
we can explicitly say it's never going to work and skip the test.

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

SKIP: {
    skip('epoch to ICal not working on MacOS', 6)
    if $^O eq 'MacOS';
    is( $t1->ical, '19700101Z', "epoch to ical" );
is($t1->year, 1970, " year()”);
is($t1->month, 1, " month()”);
is($t1->day, 1, " day()”);

# like the tests above, but starting with ical instead of epoch
my $t2 = Date::ICal->new( ical => '19700101Z' );
is($t2->ical, '19700101Z', "Start of epoch in ICal notation”);

   is($t2->epoch, 0, " and back to ICal”);
}

A little bit of magic happens here. When running on anything but
MacOS, all the tests run normally. But when on MacOS, C<skip()> causes
the entire contents of the SKIP block to be jumped over. It's never
run. Instead, it prints special output that tells Test::Harness that
the tests have been skipped.

1..7
ok 1 - Epoch time of 0
ok 2 # skip epoch to ICal not working on MacOS
ok 3 # skip epoch to ICal not working on MacOS
ok 4 # skip epoch to ICal not working on MacOS
ok 5 # skip epoch to ICal not working on MacOS
ok 6 # skip epoch to ICal not working on MacOS
ok 7 # skip epoch to ICal not working on MacOS

This means your tests won't fail on MacOS. This means less emails
from MacPerl users telling you about failing tests that you know will
never work. You've got to be careful with skip tests. These are for
tests which don't work and I<never will>. It is not for skipping
genuine bugs (we'll get to that in a moment).

The tests are wholly and completely skipped. [10] This will work.

SKIP: {
   skip("I don't wanna die!");

   die, die, die, die, die;
}

=head2 Todo tests

Thumbing through the Date::ICal man page, I came across this:

ical

$ical_string = $ical->ical;
Retrieves, or sets, the date on the object, using any valid ICal date/time string.

"Retrieves or sets". Hmmm, didn't see a test for using \texttt{C<ical()>} to set the date in the Date::ICal test suite. So I'll write one.

```perl
test {  
  use Test::More tests => 1;  
  use Date::ICal;  
  
  my $ical = Date::ICal->new;  
  $ical->ical('20201231Z');  
  is( $ical->ical, '20201231Z', 'Setting via ical()' );  
}
```

run that and I get

```
1..1
not ok 1 - Setting via ical()  
  # Failed test (- at line 6)  
  #   got: '20010814T233649Z'  
  # expected: '20201231Z'  
  # Looks like you failed 1 tests of 1.
```

Whoops! Looks like it's unimplemented. Let's assume we don't have the time to fix this. [11] Normally, you'd just comment out the test and put a note in a todo list somewhere. Instead, we're going to explicitly state "this test will fail" by wrapping it in a \texttt{C<TODO>} block.

```perl
test {  
  TODO: {  
    local $TODO = 'ical($ical) not yet implemented';  
    
    my $ical = Date::ICal->new;  
    $ical->ical('20201231Z');  
    is( $ical->ical, '20201231Z', 'Setting via ical()' );  
  }  
}
```

Now when you run, it's a little different:

```
1..1
not ok 1 - Setting via ical() # TODO ical($ical) not yet implemented  
  #   got: '20010822T201551Z'  
  # expected: '20201231Z'
```

Test::More doesn't say "Looks like you failed 1 tests of 1". That '# TODO' tells Test::Harness "this is supposed to fail" and it treats a
failure as a successful test. So you can write tests even before you've fixed the underlying code.

If a TODO test passes, Test::Harness will report it "UNEXPECTEDLY SUCCEEDED". When that happens, you simply remove the TODO block with C<local $TODO> and turn it into a real test.

=head2 Testing with taint mode.

Taint mode is a funny thing. It's the globalest of all global features. Once you turn it on, it affects I<all> code in your program and I<all> modules used (and all the modules they use). If a single piece of code isn't taint clean, the whole thing explodes. With that in mind, it's very important to ensure your module works under taint mode.

It's very simple to have your tests run under taint mode. Just throw a C<-T> into the C<#!> line. Test::Harness will read the switches in C<#!> and use them to run your tests.

#!/usr/bin/perl -Tw

...test normally here...

So when you say C<make test> it will be run with taint mode and warnings on.

=head1 FOOTNOTES

=over 4

=item 1

The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

=item 2

For those following along at home, I'm using version 1.31. It has some bugs, which is good -- we'll uncover them with our tests.

=item 3

You can actually take this one step further and test the manual itself. Have a look at B<Test::Inline> (formerly B<Pod::Tests>).
Yes, there's a mistake in the test suite. What! Me, contrived?

We'll get to testing the contents of lists later.

But what happens if your test program dies halfway through?! Since we didn't say how many tests we're going to run, how can we know it failed? No problem, Test::More employs some magic to catch that death and turn the test into a failure, even if every test passed up to that point.

I cleaned it up a little.

Most Operating Systems record time as the number of seconds since a certain date. This date is the beginning of the epoch. Unix's starts at midnight January 1st, 1970 GMT.

MacOS's epoch is midnight January 1st, 1904. VMS's is midnight, November 17th, 1858, but vmsperl emulates the Unix epoch so it's not a problem.

As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

AUTHORS

Michael G Schwern <schwern@pobox.com> and the perl-qa dancers!
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EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0  all tests successful
255  test died or all passed but wrong # of tests run
     any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

THREADS

In perl 5.8.1 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using C<current_test()> they will all be effected.

While versions earlier than 5.8.1 had threads they contain too many bugs to support.

Test::Builder is only thread-aware if threads.pm is loaded I<before>
Test::Builder.

=head1 MEMORY

An informative hash, accessible via C<< details() >>, is stored for each test you perform. So memory usage will scale linearly with each test run. Although this is not a problem for most test suites, it can become an issue if you do large (hundred thousands to million) combinatorics tests in the same run.

In such cases, you are advised to either split the test file into smaller ones, or use a reverse approach, doing "normal" (code) compares and triggering fail() should anything go unexpected.

Future versions of Test::Builder will have a way to turn history off.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

Copyright 2002-2008 by chromatic E<lt>chromatic@wgz.orgE<gt> and Michael G Schwern E<lt>schwern@pobox.comE<gt>.

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See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1129936730_1612407646.97/0/perl-Test-Simple-0.98-243.el7-1.src.rpm-cosi-expand-archive-ODQsaosS/Test-Simple-0.98.tar.gz-cosi-expand-archive-ZT1Vd4II/Test-Simple-0.98/lib/Test/Builder.pm
No license file was found, but licenses were detected in source scan.
license: perl
license: http://dev.perl.org/licenses/

Found in path(s):
* /opt/cola/permits/1129936730_1612407646.97/0/perl-Test-Simple-0.98-243.el7-1.src.rpm-cosi-expand-archive-ODQsaosS/Test-Simple-0.98.tar.gz-cosi-expand-archive-ZT1Vd4II/Test-Simple-0.98/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Test::Builder::IO::Scalar - A copy of IO::Scalar for Test::Builder

=head1 DESCRIPTION

This is a copy of IO::Scalar which ships with Test::Builder to
support scalar references as filehandles on Perl 5.6. Newer
versions of Perl simply use C<<open()>>'s built in support.

Test::Builder can not have dependencies on other modules without
careful consideration, so its simply been copied into the distribution.

=head1 COPYRIGHT and LICENSE

This file came from the "IO-stringy" Perl5 toolkit.

Copyright (c) 1996 by Eryq.  All rights reserved.
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This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1129936730_1612407646.97/0/perl-Test-Simple-0.98-243.el7-1.src.rpm-cosi-expand-archive-ODQsaosS/Test-Simple-0.98.tar.gz-cosi-expand-archive-ZT1Vd4II/Test-Simple-0.98/lib/Test/Builder/IO/Scalar.pm
No license file was found, but licenses were detected in source scan.

=head1 AUTHOR

Copyright Mark Fowler E<lt>mark@twoshortplanks.comE<gt> 2002.

This program is free software; you can redistribute it
and/or modify it under the same terms as Perl itself.

=head1 BUGS
This module will have no effect unless Term::ANSIColor is installed.

=head1 SEE ALSO

L<Test::Builder::Tester>, L<Term::ANSIColor>

=cut

Found in path(s):
  * /opt/cola/permits/1129936730_1612407646.97/0/perl-Test-Simple-0.98-243.el7-1.src.rpm-cosi-expand-archive-ODQsaosS/Test-Simple-0.98.tar.gz-cosi-expand-archive-ZT1Vd4Il/Test-Simple-0.98/lib/Test/Builder/Tester/Color.pm

No license file was found, but licenses were detected in source scan.

=back

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

  0  all tests successful
  255  test died or all passed but wrong # of tests run
       any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

    use Test::Simple tests => 5;
use Film;  # What you're testing.

my $btaste = Film->new({ Title    => 'Bad Taste',
                      Director => 'Peter Jackson',
                      Rating   => 'R',
                      NumExplodingSheep => 1
                     });
ok( defined($btaste) && ref $btaste eq 'Film',     'new() works' );

ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',               'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

    1..5
    ok 1 - new() works
    ok 2 - Title() get
    ok 3 - Director() get
    not ok 4 - Rating() get
    #  Failed test 'Rating() get'
    # in t/film.t at line 14.
    ok 5 - NumExplodingSheep() get
    # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

    0  SS$_NORMAL       all tests successful
    4  SS$_ABORT       something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES
Test::Simple is B<explicitly> tested all the way back to perl 5.6.0.

Test::Simple is thread-safe in perl 5.8.1 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=back

Look in Test::More's SEE ALSO for more testing modules.

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

=head1 COPYRIGHT

Copyright 2001-2008 by Michael G Schwern E<lt>schwern@pobox.comE<gt>. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut
Sometimes the Test::More interface isn't quite enough. Fortunately, Test::More is built on top of Test::Builder which provides a single, unified backend for any test library to use. This means two test libraries which both use Test::Builder <can be used together in the same program>.

If you simply want to do a little tweaking of how the tests behave, you can access the underlying Test::Builder object like so:

```perl
=item B<builder>
my $test_builder = Test::More->builder;
```

Returns the Test::Builder object underlying Test::More for you to play with.

So the exit codes are...

<table>
<thead>
<tr>
<th>Exit Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>all tests successful</td>
</tr>
<tr>
<td>255</td>
<td>test died or all passed but wrong # of tests run</td>
</tr>
<tr>
<td>any other number</td>
<td>how many failed (including missing or extras)</td>
</tr>
</tbody>
</table>
If you fail more than 254 tests, it will be reported as 254.

B<NOTE> This behavior may go away in future versions.

=head1 CAVEATS and NOTES

=over 4

=item Backwards compatibility

Test::More works with Perls as old as 5.6.0.

=item utf8 / "Wide character in print"

If you use utf8 or other non-ASCII characters with Test::More you might get a "Wide character in print" warning. Using C<binmode STDOUT, ":utf8"> will not fix it. Test::Builder (which powers Test::More) duplicates STDOUT and STDERR. So any changes to them, including changing their output disciplines, will not be seen by Test::More.

The workaround is to change the filehandles used by Test::Builder directly.

  my $builder = Test::More->builder;
  binmode $builder->output, ":utf8";
  binmode $builder->failure_output, ":utf8";
  binmode $builder->todo_output, ":utf8";

=item Overloaded objects

String overloaded objects are compared B<as strings> (or in cmp_ok()'s case, strings or numbers as appropriate to the comparison op). This prevents Test::More from piercing an object's interface allowing better blackbox testing. So if a function starts returning overloaded objects instead of bare strings your tests won't notice the difference. This is good.

However, it does mean that functions like is_deeply() cannot be used to test the internals of string overloaded objects. In this case I would suggest L<Test::Deep> which contains more flexible testing functions for complex data structures.
=item Threads

Test::More will only be aware of threads if "use threads" has been done before Test::More is loaded. This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

5.8.1 and above are supported. Anything below that has too many bugs.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test::Harness> is the test runner and output interpreter for Perl. It's the thing that powers C<make test> and where the C<prove> utility comes from.

L<Test::Legacy> tests written with Test.pm, the original testing module, do not play well with other testing libraries. Test::Legacy emulates the Test.pm interface and does play well with others.

L<Test::Differences> for more ways to test complex data structures.
And it plays well with Test::More.

L<Test::Class> is like xUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and the perl-qa gang.

=head1 BUGS

See F<http://rt.cpan.org> to report and view bugs.

=head1 SOURCE

The source code repository for Test::More can be found at F<http://github.com/schwern/test-more/>.

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See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1129936730_1612407646.97/0/perl-Test-Simple-0.98-243.el7-1.src.rpm-cosi-expand-archive-ODQsaosS/Test-Simple-0.98.tar.gz-cosi-expand-archive-ZT1Vd4II/Test-Simple-0.98/lib/Test/More.pm
1.1896 libpng 1.2.50-1ubuntu2.14.04.3
1.1896.1 Available under license:

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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  jar/com/mongodb/async/client/MapReduceIterableImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/AggregateIterableImpl.java
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  jar/com/mongodb/async/client/ChangeStreamIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/ChangeStreamIterableImpl.java

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* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/MongoIterableImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/AggregateToCollectionThenFindOperation.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/ClientSessionHelper.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/ClientSessionBinding.java

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* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/AggregateIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MapReduceIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MapReduceIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MapReduceIterable.java

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  jar/com/mongodb/async/client/ListDatabasesIterableImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/ListIndexesIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/ListIndexesIterableImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/ListCollectionsIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/ListCollectionsIterableImpl.java

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* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MongoClientSettings.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/FindIterableImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/package-info.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MappingIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MongoClient.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MongoIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MongoDatabase.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/MongoClientImpl.java

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* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/gridfs/helpers/package-info.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/gridfs/helpers/AsyncStreamHelper.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/gridfs/GridFSBucket.java
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  jar/com/mongodb/async/client/Observable.java
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1.1938 libxml 2.7.6 21.el6_8.1

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1.1941 libvisual 0.4.0 10.el6

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1.1942 yum-utils 1.1.30-42.el6_10

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@c man end

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1.1948 pciutils 3.2.1-1ubuntu5.1

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  site: string
  author: root
1.1963 gssproxy 0.7.0 28.el7

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1.1981 libogg 1.3.1 1ubuntu1

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1.1982 liblocale-gettext-perl 1.05-7build3

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1.1983 fio 3.7-2.el7

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1.1984 pycairo 1.8.8 1ubuntu5

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Packaged by Dave Beckett <dajobe@debian.org> from 2005-02-02

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5ceff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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**1.1994 errors 0.8.1**

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1.1995 libxpm 3.5.10-1ubuntu0.1

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1.1996 async 1.4.0

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1.1997 python-defaults 2.7.5 5ubuntu3

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This is the Debian GNU/Linux prepackaged version of the Python programming
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This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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--------------------------------------------------------------

A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2.4  2.3  2004-2003  PSF  yes
2.4.1  2.4  2004-2003  PSF  yes
2.4.2  2.4.1  2005  PSF  yes
2.4.3  2.4.2  2006  PSF  yes
2.4.4  2.4.3  2006  PSF  yes
2.5  2.4  2006  PSF  yes
2.5.1  2.5  2007  PSF  yes
2.5.2  2.5.1  2008  PSF  yes
2.5.3  2.5.2  2008  PSF  yes
2.6  2.5  2008  PSF  yes
2.6.1  2.6  2008  PSF  yes
2.6.2  2.6.1  2009  PSF  yes
2.6.3  2.6.2  2009  PSF  yes
2.6.4  2.6.3  2009  PSF  yes
2.6.5  2.6.4  2010  PSF  yes

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  jar/scalax/rules/Result.scala
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1.2001 libcgroup 0.40.rc1 18.el6_8

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1.2002 perl-file-path 2.09-2.el7

1.2003 node-normalize-package-data 0.2.2-1
1.2003.1 Available under license:

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1.2004 t-digest 3.2

1.2005 acl 2.2.51 15.el7

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1.2008 perl-pod-latex 0.61-2.el7

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No license file was found, but licenses were detected in source scan.

=back
=end __PRIVATE__
=head1 NOTES

Compatible with C<latex2e> only. Can not be used with C<latex> v2.09 or earlier.

A subclass of C<Pod::Select> so that specific pod sections can be converted to C<latex> by using the C<select> method.

Some HTML escapes are missing and many have not been tested.

=head1 SEE ALSO

L<Pod::Parser>, L<Pod::Select>, L<pod2latex>, L<Pod::Simple>.

=head1 AUTHORS

Tim Jenness E<lt>tjenness@cpan.orgE<gt>

Bug fixes and improvements have been received from: Simon Cozens E<lt>simon@cozens.netE<gt>, Mark A. Hershberger
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=head1 SYNTAX

pod2latex - convert pod documentation to latex format

=head1 SYNOPSIS

pod2latex *+.pm

pod2latex -out mytex.tex *+.pod

pod2latex -full -sections 'DESCRIPTION|NAME' SomeDir

pod2latex -prefile h.tex -postfile t.tex my.pod

=head1 DESCRIPTION
C<pod2latex> is a program to convert POD format documentation (L<perlpod>) into latex. It can process multiple input documents at a time and either generate a latex file per input document or a single combined output file.

=head1 OPTIONS AND ARGUMENTS

This section describes the supported command line options. Minimum matching is supported.

=over 4

=item B<-out>

Name of the output file to be used. If there are multiple input pods it is assumed that the intention is to write all translated output into a single file. C<.tex> is appended if not present. If the argument is not supplied, a single document will be created for each input file.

=item B<-full>

Creates a complete C<latex> file that can be processed immediately (unless C<for/=begin> directives are used that rely on extra packages). Table of contents and index generation commands are included in the wrapper C<latex> code.

=item B<-sections>

Specify pod sections to include (or remove if negated) in the translation. See L<Pod::Select"SECTION SPECIFICATIONS"> for the format to use for I<section-spec>. This option may be given multiple times on the command line. This is identical to the similar option in the C<podselect()> command.

=item B<-modify>

This option causes the output C<latex> to be slightly modified from the input pod such that when a C<>=head1 NAME> is encountered a section is created containing the actual pod name (rather than B<NAME>) and all subsequent C<>=head1> directives are treated as subsections. This has the advantage that the description of a module will be in its own section which is helpful for including module descriptions in documentation. Also forces C<latex> label and index entries to be prefixed by the name of the module.

=item B<-h1level>
Specifies the \texttt{section} that is equivalent to a \texttt{H1} pod directive. This is an integer between 0 and 5 with 0 equivalent to a \texttt{chapter}, 1 equivalent to a \texttt{section} etc. The default is 1 (\texttt{H1} equivalent to a latex section).

=item B\texttt{-help}\

Print a brief help message and exit.

=item B\texttt{-man}\

Print the manual page and exit.

=item B\texttt{-verbose}\

Print information messages as each document is processed.

=item B\texttt{-preamble}\

A user-supplied preamble for the LaTeX code. Multiple values are supported and appended in order separated by "\n". See \texttt{-prefile} for reading the preamble from a file.

=item B\texttt{-postamble}\

A user-supplied postamble for the LaTeX code. Multiple values are supported and appended in order separated by "\n". See \texttt{-postfile} for reading the postamble from a file.

=item B\texttt{-prefile}\

A user-supplied preamble for the LaTeX code to be read from the named file. Multiple values are supported and appended in order. See \texttt{-preamble}.

=item B\texttt{-postfile}\

A user-supplied postamble for the LaTeX code to be read from the named file. Multiple values are supported and appended in order. See \texttt{-postamble}.

=back

=head1 BUGS

Known bugs are:
Cross references between documents are not resolved when multiple pod documents are converted into a single output \texttt{LaTeX} file.

Functions and variables are not automatically recognized and they will therefore not be marked up in any special way unless instructed by an explicit pod command.

SEE ALSO

\texttt{Pod::LaTeX}

AUTHOR

Tim Jenness \texttt{tjenness@cpan.org}

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Pod::LaTeX - convert Pod to latex using Pod::Parser

This is version 0.60 of Pod::LaTeX. This module can be used to convert pod data to latex. It uses the standard Pod::Parser module. A pod2latex replacement command is provided. This can be installed over the pod2latex command distributed with perl.
Please let me know of any problems.

INSTALLATION

% perl Build.PL
% ./Build
% ./Build test
% ./Build install

Currently the tests are not very good (only a simple test is provided).

REQUIREMENTS

Requires perl 5.005 or newer.

Written completely in Perl. XS is not required.

Requires the PodParser package from CPAN. This is standard with perl 5.6.0. This module is part of the standard perl distribution and has been since perl 5.6.1.

AUTHOR

Tim Jenness <tjenness@cpan.org>

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CHANGES

V0.61
- Update site vs perl install for perl v5.12 and above
- Issue a deprecation warning if the module is being used in perl 5.17.0 and above.
  This module will be removed from perl Core for perl 5.20. (Ricardo Signes)
  It will still be available on CPAN.

V0.60
- Patch for "--" from Dima Kogan (RT #72518)

V0.59
- Use Module::Build
- Fix trivial pod typo (RT #46887)

V0.58
- Fix problem with [] in items (R. de Vries)

V0.57
- Missing README file for V0.56 now added. No changes to code.

V0.56
- Add -prefile/-postfile and -preamble/-postamble options to pod2latex and fix double printing of user postamble. (thanks to Adriano Rodrigues Ferreira)
- UserPostamble and UserPreamble were erroneously being written even when AddPostamble and AddPreamble were false.

V0.55
- Fix enumerated lists so that they do not double up the number (Aerial Scolnicov and Sudhi Herle)
- Strip "." and ")" from numbers when looking for enumerated lists (Sudhi Herle)
- Module now returns a true value (add 1; at end) (Dan Kogai)
- Many new Pod escapes supported (Peter J Acklam)
- The module now installs into the PERL dirs and not the site install if the perl version is greater than 5.6.0 (since this module is part of core perl as of v5.6.1).
- The pod2latex script is now configured as a true pod2latex.PL application (imported changes from bleadperl)
- Should now pass tests with Pod::ParseUtils v0.30 installed (thanks to Mark Veltzer for pointing out the problem)

V0.54
- Fix misunderstanding with =for
- Add fixes for < and > (and also |)
- Fix tabbing (thanks to Hugh S Myers)
- Fix strange indenting with long items (Hugh S Myers)
- add a real test
- Fix L<> since the fix to escape | had broken it
- add -h1level to pod2latex

V0.53
- Handle long items (Mark A Hershberge)
- Escape ~ (Simon Cozens)
- Add verbar and sol support as well as | escape (Marcel Grunauer)

V0.52
- minor fix to pod2latex to preserve order of supplied arguments

V0.51
- Fix some of the warning messages so that they report the line number in the pod file correctly for errors.
- Fix escaping of ^, { and }

V0.50
- First public release

KNOWN BUGS

- Does not automatically convert func() to B<func()> and $a to C<$a>

- Probably does not match the new perlpodspec

Found in path(s):
* /opt/cola/permits/1129937028_1612407991.5/0/perl-Pod-LaTeX-0.61-2.el7-1.src.rpm-cosi-expand-archive-MoPywynn8/Pod-LaTeX-0.61.tar.gz-cosi-expand-archive-7fMz0D64/Pod-LaTeX-0.61/README
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---

abstract: 'Convert Pod data to formatted Latex'
author:
  - 'Tim Jenness <tjenness@cpan.org>'
built_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.36
generated_by: 'Module::Build version 0.3603'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Pod-LaTeX
provides:
  Pod::LaTeX:
    file: lib/Pod/LaTeX.pm
    version: 0.61
requires:
  Pod::Find: 0
  Pod::ParseUtils: 0.3
  Pod::Parser: 0
  Pod::Select: 0
  if: 0
resources:
  homepage: http://github.com/timj/perl-Pod-LaTeX/tree/master
  license: http://dev.perl.org/licenses/
  repository: git://github.com/timj/perl-Pod-LaTeX.git
  version: 0.61

Found in path(s):
* /opt/cola/permits/1129937028_1612407991.5/0/perl-Pod-LaTeX-0.61-2.el7-1.src.rpm-cosi-expand-archive-
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MoPywn8/perl-Pod-LaTeX.spec

1.2009 nethogs 0.8.5-1.el7
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Although the Lesser General Public License is Less protective of the
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = ";
    if( ! $diff->Items(2) ) {
        printf "%d,%dd%d
", $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%da%d,%d
", $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%d%c%d\n", $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_" for $diff->Items(1);
    print $sep;
    print "> $_" for $diff->Items(2);
}
# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

traverse_balanced(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
        CHANGE    => \&callback4,
    },
    \&key_generator,
    @extra_args,
);

=head1 INTRODUCTION
I once read an article written by the authors of \texttt{C<diff>}; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the `longest common subsequence' method. In the LCS problem, you have two sequences of items:

\[
\begin{align*}
a & b & c & d & f & g & h & j & q & z \\
& a & b & c & d & e & f & g & i & j & k & r & x & y & z
\end{align*}
\]

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence \(I<S>\) which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want \(I<S>\) to be as long as possible. In this case \(I<S>\) is

\[
a & b & c & d & f & g & j & z
\]

From there it's only a small step to get \texttt{diff}-like output:

\[
\begin{array}{cccccccccc}
e & h & i & k & q & r & x & y \\
+ & - & + & - & + & + & + & + & + & + & +
\end{array}
\]

This module solves the LCS problem. It also includes a canned function to generate \texttt{C<diff>}-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

\[
\begin{align*}
a & x & b & y & c & z & p & d & q \\
& a & b & c & a & x & b & y & c & z
\end{align*}
\]

A naive approach might start by matching up the \texttt{C<a>} and \texttt{C<b>} that appear at the beginning of each sequence, like this:

\[
\begin{align*}
a & x & b & y & c & z & p & d & q \\
a & b & c & a & b & y & c & z
\end{align*}
\]

This finds the common subsequence \(C<a \ b \ c \ z>\). But actually, the LCS is \(C<a \ x \ b \ y \ c \ z>\):
\begin{itemize}
\item \texttt{a b y c z p d q}
\item \texttt{a b c a x b y c z}
\end{itemize}

or

\begin{itemize}
\item \texttt{a x b y c z p d q}
\item \texttt{a b c a x b y c z}
\end{itemize}

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: \texttt{C<LCS>}, \texttt{C<LCS_length>}, \texttt{C<LCSidx>}, OO interface, \texttt{C<prepare>}, \texttt{C<diff>}, \texttt{C<sdiff>}, \texttt{C<traverse_sequences>}, and \texttt{C<traverse_balanced>}.

=head2 \texttt{C<LCS>}

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\begin{verbatim}
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
\end{verbatim}

\texttt{C<LCS>} may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

\begin{verbatim}
@lcs  = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
\end{verbatim}

Additional parameters, if any, will be passed to the key generation routine.

=head2 \texttt{C<LCS_length>}

This is just like \texttt{C<LCS>} except it only returns the length of the longest common subsequence. This provides a performance gain of about 9\% compared to \texttt{C<LCS>}.

=head2 \texttt{C<LCSidx>}

Like C\texttt{LCS} except it returns references to two arrays. The first array contains the indices into \texttt{@seq1} where the LCS items are located. The second array contains the indices into \texttt{@seq2} where the LCS items are located.

Therefore, the following three lists will contain the same values:

\begin{verbatim}
my( $idx1, $idx2 ) = LCSidx( \texttt{@seq1}, \texttt{@seq2} );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \texttt{@seq1}, \texttt{@seq2} );
\end{verbatim}

C\texttt{new} computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

\begin{verbatim}
[ ] Encloses optional arguments
    : Is followed by the default value for an optional argument
    | Separates alternate return results
\end{verbatim}

Method summary:

\begin{verbatim}
$obj = Algorithm::Diff->new( \texttt{@seq1}, \texttt{@seq2}, [ \texttt{%opts} ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
<bits $count = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
\end{verbatim}

Note that all of the following methods C\texttt{die} if used on an object that is "reset" (not currently pointing at any hunk).
Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

$pos = $diff->Next();  # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset();  # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);  # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object
share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But \texttt{Copy} takes an optional first argument to set the new position, so the following three snippets are equivalent:

\begin{verbatim}
$copy = $diff->Copy($pos);
$copy = $diff->Copy(); $copy->Reset($pos);
$copy = $diff->Copy()->Reset($pos);
\end{verbatim}

\texttt{Copy} takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

\begin{verbatim}
$copy = $diff->Copy(); $copy->Base(0);
$copy = $diff->Copy(undef,0);
\end{verbatim}

Here are two equivalent way to get a "reset" copy:

\begin{verbatim}
$copy = $diff->Copy(0);
$copy = $diff->Copy()->Reset();
\end{verbatim}

\item \texttt{Diff}

\begin{verbatim}
$bits = $obj->Diff();
\end{verbatim}

\texttt{Diff} returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

\begin{verbatim}
=over 4
=item 3
\end{verbatim}

\texttt{C<3==(1|2)>}. This hunk contains items from \texttt{@seq1} and the items from \texttt{@seq2} that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

\begin{verbatim}
=over 4
=over 2
=over 3
=over 4
=over 2
\end{verbatim}
This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren’t. In a scalar context, it returns the size of the list.

=item C<Items>

    $count = $diff->Items(2);
    @items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

    @items = $diff->Items(1);
    @items = $diff->Items(2);
    @items = $diff->Same();
=item C\<Range\>

\$count = $\text{diff}->\text{Range}( $\text{seqNum} );
\@indices = $\text{diff}->\text{Range}( $\text{seqNum} );
\@indices = $\text{diff}->\text{Range}( $\text{seqNum}, $\text{base} );

\text{C\<Range\>} is like \text{C\<Items\>} except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the \text{C\<Base\>} method. So, by default, the following two snippets return the same lists:

\@list = $\text{diff}->\text{Items}(2);
\@list = @seq2[ $\text{diff}->\text{Range}(2) ];

You can also specify the base to use as the second argument. So the following two snippets \text{I\always\>} return the same lists:

\@list = $\text{diff}->\text{Items}(1);
\@list = @seq1[ $\text{diff}->\text{Range}(1,0) ];

=item C\<Base\>

\$\text{curBase} = $\text{diff}->\text{Base}();
\$\text{oldBase} = $\text{diff}->\text{Base}(\$\text{newBase});

\text{C\<Base\>} sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C\<Min\>

\$\text{min1} = $\text{diff}->\text{Min}(1);
\$\text{min} = $\text{diff}->\text{Min}( $\text{seqNum}, $\text{base} );

\text{C\<Min\>} returns the first value that \text{C\<Range\>} would return (given the same arguments) or returns \text{C\<undef\>} if \text{C\<Range\>} would return an empty list.

=item C\<Max\>

\text{C\<Max\>} returns the last value that \text{C\<Range\>} would return or \text{C\<undef\>}.

=item C\<Get\>

( $\text{n}, $\text{x}, $\text{r} ) = $\text{diff}->\text{Get}( \text{qw( min1 max1 range1 }) );
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(-?\d+)?(min|max)[12]$i
/^((range[12]|same|diff|base)$/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before “min” or “max” is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you’ve passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{  
   @lcs = LCS( $prep, $seq[$i] );
   # do something useful with @lcs
}

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{  
   @lcs = LCS( $seq[$i], $prep, \&keyGen );
   # do something useful with @lcs
}

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.
\begin{verbatim}
=\texttt{head2 C\texttt{diff}}

\texttt{@diffs} = \texttt{diff( \@seq1, \@seq2 );}
\texttt{$diffs\_ref} = \texttt{diff( \@seq1, \@seq2 );}
\end{verbatim}

\texttt{C\texttt{diff}} computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of \texttt{hunks}; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of \texttt{C\texttt{diff}} is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling \texttt{C\texttt{diff}} for the following two sequences:

\begin{verbatim}
a b c e h j l m n p
b c d e f j k l m r s t
\end{verbatim}

would produce the following list:

\begin{verbatim}
(  
  [ [ '-', 0, 'a' ] ],  
  [ [ '+', 2, 'd' ] ],  
  [ [ '-', 4, 'h' ],  
    [ '+', 4, 'f' ] ],  
  [ [ '+', 6, 'k' ] ],  
  [ [ '-',  8, 'n' ],  
    [ '-',  9, 'p' ],  
    [ '+',  9, 'r' ],  
    [ '+', 10, 's' ],  
    [ '+', 11, 't' ]],
)
\end{verbatim}

There are five hunks here. The first hunk says that the \texttt{C\texttt{a}} at position 0 of the first sequence should be deleted (\texttt{C\texttt{-}}). The second hunk says that the \texttt{C\texttt{d}} at position 2 of the second sequence should be inserted (\texttt{C\texttt{+}}). The third hunk says that the \texttt{C\texttt{h}} at position 4 of the first sequence should be removed and replaced with the \texttt{C\texttt{f}} from position 4 of the second sequence. And so on.

\texttt{C\texttt{diff}} may be passed an optional third parameter; this is a \texttt{CODE}
reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

@sdiffs = sdiff( @seq1, @seq2 );
$sdiffs_ref = sdiff( @seq1, @seq2 );

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

<table>
<thead>
<tr>
<th>same</th>
<th>same</th>
</tr>
</thead>
<tbody>
<tr>
<td>before</td>
<td>after</td>
</tr>
<tr>
<td>old</td>
<td>&lt;</td>
</tr>
<tr>
<td>-</td>
<td>&gt;</td>
</tr>
</tbody>
</table>

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

a b c e h j l m n p
b c d e f j k l m r s t

results in

( [ '-', 'a', '' ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', '', 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', '', 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'u', 'p', 't' ],
  [ 'c', 'p', 't' ],
  [ 'u', 'q', 'q' ],
  [ 'c', 'q', 'q' ],
  [ 'u', 'r', 'r' ],
  [ 'c', 'r', 'r' ],
  [ 'u', 's', 's' ],
  [ 'c', 's', 's' ],
  [ 'u', 't', 't' ],
  [ 'c', 't', 't' ],
  [ 'u', 'u', 'u' ],
  [ 'c', 'u', 'u' ],
  [ 'u', 'v', 'v' ],
  [ 'c', 'v', 'v' ],
  [ 'u', 'w', 'w' ],
  [ 'c', 'w', 'w' ],
  [ 'u', 'x', 'x' ],
  [ 'c', 'x', 'x' ],
  [ 'u', 'y', 'y' ],
  [ 'c', 'y', 'y' ],
  [ 'u', 'z', 'z' ],
  [ 'c', 'z', 'z' ]
)

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[ 'c', 'p', 's' ],
[ '+', '', 't' ],
)
C<sdiff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<compact_diff>
C<compact_diff> is much like C<sdiff> except it returns a much more
compact description consisting of just one flat list of indices. An
example helps explain the format:
my @a = qw( a b c e h j l m n p
);
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a
@b
@a
@b
# start start values values
( 0, 0, #
=
0,
0, # a !
1,
0, # b c = b c
3,
2, #
! d
3,
3, # e = e
4,
4, # f ! h
5,
5, # j = j
6,
6, #
! k
6,
7, # l m = l m
8,
9, # n p ! r s t
10, 12, #
);
The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the
above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc.
entries are all indices into @seq2 (@b in the above example) indicating
where the same hunk begins.
So each pair of indices (except the last pair) describes where a hunk
begins (in each sequence). Since each hunk must end at the item just
before the item that starts the next hunk, the next pair of indices can
be used to determine where the hunk ends.
So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1
describe where the first hunk begins (and so are always both 0).

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Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items \texttt{C<diff[0]> through C<diff[2] - 1>} of the first sequence and contains items \texttt{C<diff[1]> through C<diff[3] - 1>} of the second sequence.

In other words, the first hunk consists of the following two lists of items:

\begin{verbatim}
    #  1st pair   2nd pair  
    # of indices of indices
    @list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
    @list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
    # Hunk start   Hunk end
\end{verbatim}

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since \texttt{@a} and \texttt{@b} don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

\begin{verbatim}
    @hunk1a = @a[ 0 .. 0-1 ];
    @hunk1b = @b[ 0 .. 0-1 ];
\end{verbatim}

And \texttt{C<0..-1>} returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since \texttt{C<@diff[2..5]>} contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

\begin{verbatim}
    @hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
    @hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
    # or
    @hunk2a = @a[ 0 .. 1-1 ];
    @hunk2b = @b[ 0 .. 0-1 ];
    # or
\end{verbatim}
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );

That is, we would delete item 0 ('a') from @a.

Since C@$diff[4..7]$ contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[i]$> and C<$B[j]$> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[i]$> and arrow B is pointing to C<$B[j]$>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.
Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. \texttt{C<traverse\_sequences>} will advance that arrow and will call the \texttt{C<DISCARD\_A>} or the \texttt{C<DISCARD\_B>} callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then \texttt{C<traverse\_sequences>} will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to \texttt{C<traverse\_sequences>} are the two sequences to traverse, and a hash which specifies the callback functions, like this:

\begin{verbatim}
traverse_sequences(
    \@seq1, \@seq2,
    \{ MATCH => $callback_1,
        DISCARD\_A => $callback_2,
        DISCARD\_B => $callback_3,
    \}
);
\end{verbatim}

Callbacks for MATCH, DISCARD\_A, and DISCARD\_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A\_FINISHED and B\_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, \texttt{C<traverse\_sequences>} will call the \texttt{C<A\_FINISHED>} callback when it advances arrow B, if there is such a function; if not it will call \texttt{C<DISCARD\_B>} instead. Similarly if arrow B finishes first. \texttt{C<traverse\_sequences>} returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

\texttt{C<traverse\_sequences>} may be passed an optional fourth parameter; this is a \texttt{CODE} reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>}.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing \texttt{undef}:

\begin{verbatim}
traverse_sequences(
    \@seq1, \@seq2,
    \{ MATCH => $callback_1,
        DISCARD\_A => $callback_2,
        DISCARD\_B => $callback_3,
        \}
);
\end{verbatim}
C<\textit{traverse\_sequences}> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<\textit{traverse\_balanced}>

C<\textit{traverse\_balanced}> is an alternative to C<\textit{traverse\_sequences}>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report changes occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<\texttt{DISCARD\_A}>, C<\texttt{DISCARD\_B}>, and C<\texttt{MATCH}> callbacks supported by C<\textit{traverse\_sequences}>, C<\textit{traverse\_balanced}> supports a C<\texttt{CHANGE}> callback indicating that one element got replaced by another:

\begin{verbatim}
traverse_balanced(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
        CHANGE    => $callback_4,
    };
)
\end{verbatim}

If no C<\texttt{CHANGE}> callback is specified, C<\textit{traverse\_balanced}> will map C<\texttt{CHANGE}> events to C<\texttt{DISCARD\_A}> and C<\texttt{DISCARD\_B}> actions, therefore resulting in a similar behaviour as C<\textit{traverse\_sequences}> with different order of events.

C<\textit{traverse\_balanced}> might be a bit slower than C<\textit{traverse\_sequences}>, noticeable only while processing huge amounts of data.

The C<\texttt{sdiff}> function of this module is implemented as call to C<\textit{traverse\_balanced}>.

C<\textit{traverse\_balanced}> does not have a useful return value; you are expected to
plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

    package Person;

    sub new
    {
        my $package = shift;
        return bless { name => "", ssn => "", @_ }, $package;
    }

    sub clone
    {
        my $old = shift;
        my $new = bless { %$old }, ref($old);
    }

    sub hash
    {
        return shift()->'ssn';
    }

    my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
    my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
    my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
    my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
    my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $person5 ];
Algorithm::Diff::diff($array1, $array2);

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff($array1, $array2);

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff($array1, $array2, \&Person::hash);

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

=head1 LICENSE

Parts Copyright (c) 2000-2004 Ned Konz. All rights reserved.
Parts by Tye McQueen.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl.

=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in I<A Fast Algorithm for Computing Longest Common Subsequences>, CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1137305575_1614052247.79/0/libalgorithm-diff-perl-1-19-02-orig-1-tar-gz/Algorithm-Diff-1.1902/lib/Algorithm/Diff.pm

No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

@diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {

foreach $line (@$chunk) {
    my ($sign, $lineno, $text) = @$line;
    print "%-4d$sign %s
", $lineno+1, $text;
}
print "--------
";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
  * /opt/cola/permits/1137305575_1614052247.79/0/libalgorithm-diff-perl-1-19-02-orig-1-tar-gz/Algorithm-Diff-1.1902/diff.pl
No license file was found, but licenses were detected in source scan.

# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.

Found in path(s):
  * /opt/cola/permits/1137305575_1614052247.79/0/libalgorithm-diff-perl-1-19-02-orig-1-tar-gz/Algorithm-Diff-1.1902/diffnew.pl
No license file was found, but licenses were detected in source scan.
#!/usr/bin/perl -w
#
# Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
# use strict;

use strict;
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u} [{-C | -U} lines] oldfile newfile
   -c will do a context diff with 3 lines of context
   -C will do a context diff with 'lines' lines of context
   -u will do a unified diff with 3 lines of context
   -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ''; # -c on if -C given on command line
  $opt_u = 0;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ''; # -u on if -U given on command line
  $opt_c = 0;
} else {
  $opt_c = ''; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_C) {
  $Context_Lines = defined $opt_C ? $opt_C : 3;
} else {
  $Context_Lines = defined $opt_u ? $opt_u : 3;
}

#...
$char1 = 'x' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag(" Couldn't open $file1: $!");
open (F2, $file2) or bag(" Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my ($st = stat($file1));
print "$char1 $file1	", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2	", scalar localtime($st->mtime), "\n";

my ($hunk, $oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;
    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(@f1, @f2);
    }
}

$oldhunk = $hunk;

# print the last hunk
$oldhunk->output_diff(@f1, @f2);
exit 1;
# END MAIN PROGRAM
sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)

package Hunk;

sub new {
    # Arg1 is output from &LCS::diff (which corresponds to one Block)
    # Arg2 is the number of items (lines, e.g..) of context around each block
    #
    # This subroutine changes $File_Length_Difference
    #
    # Fields in a Hunk:
    # blocks      - a list of Block objects
    # start       - index in file 1 where first block of the hunk starts
    # end         - index in file 1 where last block of the hunk ends
    #
    # Variables:
    # before_diff - how much longer file 2 is than file 1 due to all hunks
    #              until but NOT including this one
    # after_diff  - difference due to all hunks including this one
    my ($class, $piece, $context_items) = @_;

    my $block = new Block ($piece); # this modifies $FLD!

    my $before_diff = $File_Length_Difference; # BEFORE this hunk
    my $after_diff = $before_diff + $block->{"length_diff"};
    $File_Length_Difference += $block->{"length_diff"};

    # @remove_array and @insert_array hold the items to insert and remove
    # Save the start & beginning of each array. If the array doesn't exist
    # though (e.g., we're only adding items in this block), then figure
    # out the line number based on the line number of the other file and
    # the current difference in file lengths
    my @remove_array = $block->remove;
    my @insert_array = $block->insert;

    my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
    $a1 = @remove_array ? $remove_array[0]->{"item_no"} : -1;
    $a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
    $b1 = @insert_array ? $insert_array[0]->{"item_no"} : -1;
    $b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

    #...
$b2 = @insert_array ? $insert_array[-1]->"item_no" : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;

sub flag_context {
    my ($hunk, $context_items) = @_; 
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ? $#f1 - $end1 : $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_; 
    return "" unless $oldhunk; # first time through, $oldhunk is empty

# Do I actually need to test both?
return ($hunk->"start1" - $oldhunk->"end1") <= 1 ||
      $hunk->"start2" - $oldhunk->"end2" <= 1);
}  

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
  my ($hunk, $oldhunk) = @_;  

  $hunk->"start1" = $oldhunk->"start1";
  $hunk->"start2" = $oldhunk->"start2";

  unshift (@{$hunk->"blocks"}, @{$oldhunk->"blocks"});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
  if (defined $main::opt_u) {&output_unified_diff(@_)}
  elsif (defined $main::opt_c) {&output_context_diff(@_)}
  else {die "unknown diff"}
}

sub output_unified_diff {
  my ($hunk, $fileref1, $fileref2) = @_;  
  my @blocklist;

  # Calculate item number range.
  my $range1 = $hunk->unified_range(1);
  my $range2 = $hunk->unified_range(2);
  print "@@ -$range1 +$range2 @@\n";

  # Outlist starts containing the hunk of file 1.
  # Removing an item just means putting a '-' in front of it.
  # Inserting an item requires getting it from file2 and splicing it in.
  # We splice in $num_added items. Remove blocks use $num_added because
  # splicing changed the length of outlist.
  # We remove $num_removed items. Insert blocks use $num_removed because
  # their item numbers---corresponding to positions in file *2*--- don't take
  # removed items into account.
  my $low = $hunk->"start1";
  my $hi = $hunk->"end1";
  my ($num_added, $num_removed) = (0,0);
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@{$hunk->{"blocks"}}) {
foreach my $item ($block->remove) {
my $op = $item->{"sign"}; # my $offset = $item->{"item_no"} - $low + $num_added;
$outlist[$offset] =~ s/^ /$op/;
$num_removed++;
}
foreach my $item ($block->insert) {
my $op = $item->{"sign"}; # +
my $i = $item->{"item_no"};
my $offset = $i - $hunk->{"start2"} + $num_removed;
splice(@outlist,$offset,0,"$op$$fileref2[$i]");
$num_added++;
}
}
map {s/$/\n/} @outlist; # add \n's
print @outlist;
}
sub output_context_diff {
my ($hunk, $fileref1, $fileref2) = @_;
my @blocklist;
print "***************\n";
# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);
# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "*** $range1 ****\n";
my $low = $hunk->{"start1"};
my $hi = $hunk->{"end1"};
if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
my @outlist = @$fileref1[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
my $op = $block->op; # - or !
foreach my $item ($block->remove) {
$outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
}
}
map {s/$/\n/} @outlist; # add \n's
print @outlist;
}

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print "--- $range2 ----\n";
$low = $hunk->{"start2"};
$hi  = $hunk->{"end2"};
if (@blocklist = grep {$_->[insert]} @{$hunk->{"blocks"}}) {
my @outlist = @{$fileref2}[{$low..$hi}];
map {s/^/  /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
   my $op = $block->[op]; # + or !
   foreach my $item ($block->[insert]) {
$outlist[$item->["item_no"] - $low] =~ s/^/$op/;
   }
}
map {s/$/
/} @outlist; # add \n's
print @outlist;
}

sub context_range {
    # Generate a range of item numbers to print. Only print 1 number if the range
    # has only one item in it. Otherwise, it's 'start,end'
    my ($hunk, $flag) = @_;;
    my ($start, $end) = ($hunk->["start$flag"],$hunk->["end$flag"]);
    $start++; $end++;  # index from 1, not zero
    my $range = ($start < $end) ? "$start,$end" : $end;
    return $range;
}

sub unified_range {
    # Generate a range of item numbers to print for unified diff
    # Print number where block starts, followed by number of lines in the block
    # (don't print number of lines if it's 1)
    my ($hunk, $flag) = @_;;
    my ($start, $end) = ($hunk->["start$flag"],$hunk->["end$flag"]);
    $start++; $end++;  # index from 1, not zero
    my $length = $end - $start + 1;
    my $first = $length < 2 ? $end : $start; # strange, but correct...
    my $range = $length== 1 ? "$first,$length" : "$first,$length";
    return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;

sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign        - '+' for insert, '-' for remove
# item_no     - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;  
my @changes = ();

# This just turns each change into a hash.
foreach my $item (@$chunk) {  
    my ($sign, $item_no, $text) = @$item;
    my $hashref = {"sign" => $sign, "item_no" => $item_no};
    push @changes, $hashref;
}

my $block = { "changes" => \@changes };  
bless $block, $class;

$block->{"length_diff"} = $block->{insert} - $block->{remove};
return $block;

# LOW LEVEL FUNCTIONS
sub op {  
    # what kind of block is this?
    my $block = shift;
    my $insert = $block->{insert};
    my $remove = $block->{remove};

    $remove && $insert and return '!';
    $remove and return '-';
    $insert and return '+';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-' } @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+' } @{shift->{"changes"}}; }

} # end of package Block
1.2026 libxcb 1.13 1.el7

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1.2029 curl 7.69.1-r0

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### 1.2030 reflectwalk 1.0.0

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1.2031 node-minimatch 0.2.12

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1.2032 datadog-go 2.2.0+incompatible
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1.2034 node-github-url-from-git 1.1.1-1

1.2035 zlib 1.2.3
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1.2038 libjpeg 1.2.90-6.el7

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* command-line switches. Switches processed here are:
* -qtables fileRead quantization tables from text file
* -scans fileRead scan script from text file
* -quality N[,N,...]Set quality ratings
* -qslots N[,N,...]Set component quantization table selectors
* -sample HxV[,HxV,...]Set component sampling factors
*/

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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdsswitch.c

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 *
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 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
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Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfmmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm

No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jidctflt.c

No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \cdot Cr \]
* \[ G = Y + K2 \cdot Cb + K3 \cdot Cr \]
* \[ B = Y + K4 \cdot Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
* 
* This file currently provides implementations for the following cases:
* \[ YCbCr \rightarrow RGB \] color conversion only.
* * Sampling ratios of 2h1v or 2h2v.
* * No scaling needed at upsample time.
* * Corner-aligned (non-CCIR601) sampling alignment.
* * Other special cases could be added, but in most applications these are
* * the only common cases. (For uncommon cases we fall back on the more
* * general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdmerge.c
No license file was found, but licenses were detected in source scan.

\libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate
baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo
is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform
libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward
TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-
bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by
Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and
in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG
compression/decompression technology available to a broader range of users and developers.
/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

No license file was found, but licenses were detected in source scan.
Open Source Used In Tetration 3.5.1 2013

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Open Source Used In Tetration 3.5.1 2013
This file contains tables and miscellaneous utility routines needed
for both compression and decompression.
Note we prefix all global names with "j" to minimize conflicts with
a surrounding application.

rdrle.c

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains routines to read input images in Utah RLE format.
The Utah Raster Toolkit library is required (version 3.1 or later).

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed RLE format).

Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.

jmemsys.h

Copyright (C) 1992-1997, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This include file defines the interface between the system-independent
and system-dependent portions of the JPEG memory manager. No other
modules need include it. (The system-independent portion is jmemmgr.c;
there are several different versions of the system-dependent portion.)
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmemsys.h

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.
A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams,
The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables; all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.
BASIC LIBRARY USAGE

================================

Data formats

---------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by
BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
--------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is
2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):
The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
    jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream
Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen. In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.
When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won’t. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.
1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (e.g., a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to
3. Call `jpeg_read_header()` to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case `jpeg_read_header()` may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.
5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width	image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);
Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.
After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
-----------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).
While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
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Compression parameter selection
--------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

    jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline) [libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE). CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colors() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLs]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLs]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density

boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform		
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-
fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

**J_DITHER_MODE** dither_mode
Selects color dithering method. Supported values are:
- JDITHER_NONE: no dithering; fast, very low quality
- JDITHER_ORDERED: ordered dither; moderate speed and quality
- JDITHER_FS: Floyd-Steinberg dither; slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

**JSAMPARRAY** colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.

**CAUTION:** if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

**J_DCT_METHOD** dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used,
but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB $\leftrightarrow$ YCbCr and CMYK $\leftrightarrow$ YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB $\Rightarrow$ YCbCr
- RGB $\Rightarrow$ GRAYSCALE
- YCbCr $\Rightarrow$ GRAYSCALE
- CMYK $\Rightarrow$ YCCK

plus the null transforms: GRAYSCALE $\Rightarrow$ GRAYSCALE, RGB $\Rightarrow$ RGB, YCbCr $\Rightarrow$ YCbCr, CMYK $\Rightarrow$ CMYK, YCCK $\Rightarrow$ YCCK, and UNKNOWN $\Rightarrow$ UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

- YCbCr $\Rightarrow$ RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
  the importance of the message; you can control the verbosity of the
  program by adjusting the maximum trace level that will be displayed.
You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h: ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the
destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;   /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't
call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after
Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially; they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:
In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it
will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().
To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
-------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number
will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()
sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what’s needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library’s output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to...
the point where the input is more than one whole scan ahead of the output.
If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower
part of the image is one or more scans better in quality than the upper part.
Then, when the next output scan is started, you have a choice of what target
scan number to use. The recommended choice is to use the current input scan
number at that time, which implies that you've skipped the output scans
corresponding to the input scans that were completed while you processed the
previous output scan. In this way, the decoder automatically adapts its
speed to the arriving data, by skipping output scans as necessary to keep up
with the arriving data.

When using this strategy, you'll want to be sure that you perform a final
output pass after receiving all the data; otherwise your last display may not
be full quality across the whole screen. So the right outer loop logic is
something like this:
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.
It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

Note: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer’s responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you’ll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you
normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cininfo.quant_tbl_ptrs[n] == NULL)
    cininfo.quant_tbl_ptrs[n] = jpeg_alloquant_table((J_common_ptr) &cininfo);
quant_ptr = cininfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
```
Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.)

Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().
It is possible to read a series of images from a single source file by repeating the `jpeg_read_header()` ... `jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

Special markers
--------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the
selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if
the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but
we don't recommend it. The decompression library will recognize JFIF and
Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by
calling jpeg_write_marker() after jpeg_start_compress() and before the first
call to jpeg_write_scanlines(). When you do this, the markers appear after
the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before
all else. Specify the marker type parameter as "JPEG_COM" for COM or
"JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write
any marker type, but we don't recommend writing any other kinds of marker.)
For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once,
you can instead call jpeg_write_m_header() followed by multiple calls to
jpeg_write_m_byte(). If you do it this way, it's your responsibility to
call jpeg_write_m_byte() exactly the number of times given in the length
parameter to jpeg_write_m_header(). (This method lets you empty the
output buffer partway through a marker, which might be important when
using a suspending data destination module. In any case, if you are using
a suspending destination, you should flush its buffer after inserting
any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself,
you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't
forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the
correct JFIF version number in the JFIF header marker. The library's default
is to write version 1.01, but that's wrong if you insert any 1.02 extension
markers. (We could probably get away with just defaulting to 1.02, but there
used to be broken decoders that would complain about unknown minor version
numbers. To reduce compatibility risks it's safest not to write 1.02 unless
you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers
into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers
on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending
data source; writing a marker processor that copes with input suspension is
not easy (consider what happens if the marker is longer than your available
input buffer). However, the second method conserves memory since the marker
data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been
read from the data source module. The processor routine is responsible for
reading the marker length word and the remaining parameter bytes, if any.
Return TRUE to indicate success. (FALSE should be returned only if you are
using a suspending data source and it tells you to suspend. See the standard
marker processors in jdmarker.c for appropriate coding methods if you need to
use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur
properly. We recommend copying and extending the default processors if you
want to do that. (A better idea is to save these marker types for later
examination by calling jpeg_save_markers(); that method doesn't interfere
with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
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Some applications need to supply already-downsampled image data to the JPEG
compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write or
read raw data, bypassing the normal preprocessing or postprocessing steps.
The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same
dimensions.
To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks*DCTSIZE  samples per row

After jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

- cinfo->comp_info[0].h_samp_factor = 2 for Y
- cinfo->comp_info[0].v_samp_factor = 2
- cinfo->comp_info[1].h_samp_factor = 1 for Cb
- cinfo->comp_info[1].v_samp_factor = 1
- cinfo->comp_info[2].h_samp_factor = 1 for Cr
- cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 “scanlines”. The last DCT block row of Y data is dummy, so it doesn’t matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful
completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framework might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg Suppress_tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpe.c or djpe.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don’t get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don’t recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don’t pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library’s inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit) ..........................................................
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
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This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

`ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);`

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.
The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc'd. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending
on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.

2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
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A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a
At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables.

You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.

You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the
library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.
Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (e.g., about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/libjpeg.txt

No license file was found, but licenses were detected in source scan.

/*
* jdcolor.c

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
*
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
*
* 1x1 is trivial: just take the DC coefficient divided by 8.
*
* See jidctint.c for additional comments.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.

Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

This file contains input colorspace conversion routines.

*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* jcoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcoefct.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; [TAB8]
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; -----------------------------------------------------------------------------

Found in path(s):
*/
*rdbmp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
*jcmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) there respective owners. You are granted full redistribution and publication rights on these images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here.
   That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2011-2012 D. R. Commander. All Rights Reserved.
 */
* Redistribution and use in source and binary forms, with or without
  * modification, are permitted provided that the following conditions are met:
  *
  * - Redistributions of source code must retain the above copyright notice,
    * this list of conditions and the following disclaimer.
  * - Redistributions in binary form must reproduce the above copyright notice,
    * this list of conditions and the following disclaimer in the documentation
    * and/or other materials provided with the distribution.
  * - Neither the name of the libjpeg-turbo Project nor the names of its
    * contributors may be used to endorse or promote products derived from this
    * software without specific prior written permission.
  *
  * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
  * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
  * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  * POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpeg/turbojpegturbo/TJ.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpeg/turbojpegturbo/TJUnitTest.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpeg/turbojpegturbo/TJLoader.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpeg/turbojpegturbo/TJDecompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpeg/turbojpegturbo/TJCompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jar/turbojpeg-jni.c

No license file was found, but licenses were detected in source scan.

*/

* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This file contains the decompression postprocessing controller.

This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.

If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code.

An integrated upsample/convert/quantize process would replace this module entirely.

This file was part of the Independent JPEG Group's software:

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Modifications:

Copyright (C) 1999-2006, MIYASAKA Masaru.
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2011 D. R. Commander

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This file contains the forward-DCT management logic.

This code selects a particular DCT implementation to be used, and it performs related housekeeping chores including coefficient quantization.

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Modifications:

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For conditions of distribution and use, see the accompanying README file.
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper
======================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpeg turbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the “official” distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
-----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or
turbojpeg.dll) is not installed under a system library directory or under a
directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will
need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/java/README

No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
; This software is provided 'as-is', without any express or implied
; warranty. In no event will the authors be held liable for any damages
; arising from the use of this software.
;
; Permission is granted to anyone to use this software for any purpose,
; including commercial applications, and to alter it and redistribute it
; freely, subject to the following restrictions:
;
; 1. The origin of this software must not be misrepresented; you must not
; claim that you wrote the original software. If you use this software
; in a product, an acknowledgment in the product documentation would be
; appreciated but is not required.
;
; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
;
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

;=====================================================================
; System-dependent configurations

ifdef WIN32;----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

;-- segment definition --
%if __YASM_VER__
%define SEG_TEXT   .text  align=16
%define SEG_CONST  .rdata align=16
%else
%define SEG_TEXT   .text  align=16 public use32 class=CODE
%define SEG_CONST  .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64;  ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT   .text  align=16
%define SEG_CONST  .rdata align=16
%else
%define SEG_TEXT   .text  align=16 public use64 class=CODE
%define SEG_CONST  .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name)  name			; foo() -> foo

%elifdef OBJ32;  ----(nasm -fobj -DOBJ32 ...)---------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT   .text  align=16 public use32 class=CODE
%define SEG_CONST  .data  align=16 public use32 class=DATA

%elifdef ELF;  ----(nasm -felf[64] -DELF ...)-----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT   .text  progbits align=16
%define SEG_CONST  .rodata progbits align=16
%else
%define SEG_TEXT   .text  progbits alloc exec  nowrite align=16
%define SEG_CONST  .rodata progbits alloc noexec nowrite align=16
%endif

%endif
; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name)  name; foo() -> foo

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)--
; * Older Linux using a.out format  (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format  (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT    .text  ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST   .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL  _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type

Open Source Used In Tetration 3.5.1 20215
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(PINTE)R
%define POINTER_BIT QWORD_BIT ; sizeof(PINTE)R)*BYTE_BIT
%else
%define POINTER dword ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(PINTE)R)
%define POINTER_BIT DWORD_BIT ; sizeof(PINTE)R)*BYTE_BIT
%endif

%define INT dword ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define MMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; --------------------------------------------------------------------------
; External Symbol Name
;
 ifndef EXTN
 %define EXTN(name) _ %+ name ; foo() -> _foo
 endif

Open Source Used In Tetration 3.5.1 20216
Macros for position-independent code (PIC) support

#ifndef GOT_SYMBOL
#undef PIC
#endif

ifdef PIC ; --

ifidn GOT_SYMBOL,_MACHO_PIC_ ;

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

#define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx resister.
call %geteip
addecx, byte (%ref - $)
jmpshort %adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
push ebp
xorebp,ebp; ebp = 0
ifidni %1,ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%ref)
%ref:
else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%ref)
%ref:mov %1, ecx
endif ; (%1 == ebx)
popebp
%endmacro

else; GOT_SYMBOL != _MACHO_PIC_ --

-----------------------------------------------
%define GOTOFF(got, sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL
call %%geteip
add 1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmp short %%done
%%geteip:
mov 1, POINTER [esp]
ret
%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_  -----------------

%imacro pushpic1.nolist
push 1
%endmacro
%imacro poppic1.nolist
pop 1
%endmacro
%imacro movpic2.nolist
mov 1,%2
%endmacro

%else; !PIC  -----------------------------------------

%define GOTOFF(got, sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC  -----------------------------------------

; --------------------------------------------------------------------------
; Align the next instruction on {2,4,8,16,..}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))
%imacro alignx 1-2.nolist 0xFFFF
%bs:times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
  db 0x90 ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
  db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
  db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
  db 0x8D,0xAD,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
  db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
  db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
  db 0x8B,0xED ; mov ebp ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
  db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro
%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimdfcfg.inc"
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.

License: IJG

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cdjpeg.c
/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jdhuff.c

No license file was found, but licenses were detected in source scan.

/*
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 *
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 * 
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 *   software without specific prior written permission.
 * 
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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/tjutil.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/bmp.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jcstest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/bmp.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/tjutil.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java

No license file was found, but licenses were detected in source scan.

/*
* jquant2.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2-90-tgz/libjpeg-turbo-1.2-90-tar-gz/libjpeg-turbo-1.2.90/jquant2.c

No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile  inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2-90-tgz/libjpeg-turbo-1.2-90-tar-gz/libjpeg-turbo-1.2.90/cjpeg.c

No license file was found, but licenses were detected in source scan.


Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However,
the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C.
The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirectioning through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastd.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall
control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data

|              |               |
------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip"
buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
 ||-- Preprocessing controller --|
 |                          |-- Downsampling
 Main controller --|
 |                  |-- Forward DCT, quantize
 |                    |-- Coefficient controller --|
 |                          |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required.
Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

### Decompression object structure

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
    |-- Coefficient controller --|
    |                             |-- Dequantize, Inverse DCT
Main controller --|
    |-- Upsampling
    |-- Postprocessing controller --| |-- Colorspace conversion
    |                             |-- Color quantization
    |                             |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG
file, this controller is responsible for buffering the full image.
(Buffering DCT coefficients, rather than samples, is necessary to support
progressive JPEG.) The equivalent of one fully interleaved MCU row of
subsampled data is processed per call, even when the source JPEG file is
noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform
Huffman or arithmetic entropy decoding. Works on one MCU per call.
For progressive JPEG decoding, the coefficient controller supplies the prior
coefficients of each MCU (initially all zeroes), which the entropy decoder
modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients
buffered by the coefficient controller have NOT been dequantized; we
merge dequantization and inverse DCT into a single step for speed reasons.
When scaled-down output is asked for, simplified DCT algorithms may be used
that emit fewer samples per DCT block, not the full 8x8. Works on one DCT
block at a time.

* Postprocessing controller: buffer controller for the color quantization
input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this
controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more
general output rescaling, too. Note that if undersized DCT outputs have
been emitted by the DCT module, this module must adjust so that properly
sized outputs are created.) Works on one row group at a time. This module
also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in
all but the highest-quality operating modes, upsampling and color
conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space,
and change data layout from separate component planes to pixel-interleaved.
Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an
externally specified colormap or an internally generated one. This module
is not used for full-color output. Works on one pixel row at a time; may
require two passes to generate a color map. Note that the output will
always be a single component representing colormap indexes. In the current
design, the output values are JSAMPLEs, so an 8-bit compilation cannot
quantize to more than 256 colors. This is unlikely to be a problem in
practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output
section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "/((value) & 0xFF)" on signed-char machines and "/((int) (value))" elsewhere.
With these conventions, JSAMPLE values can be assumed to be $\geq 0$. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from $-128..127$ is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to $0..255$. (NB: different values are required when 12-bit samples are in use.

The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by $N$ consecutive JSAMPLE values, and an image row is an array of ($\# \text{ of color components}) \times \text{(image width)}$ JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)
Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.
This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size.
without causing problems; otherwise a 64K buffer would be needed in the worst
case.)

The JPEG marker writer currently does *not* cope with suspension.
We feel that this is not necessary; it is much easier simply to require
the application to ensure there is enough buffer space before starting. (An
empty 2K buffer is more than sufficient for the header markers; and ensuring
there are a dozen or two bytes available before calling jpeg_finish_compress()
will suffice for the trailer.) This would not work for writing multi-scan
JPEG files, but we simply do not intend to support that capability with
suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of
memory, and it manages large "virtual" data arrays on machines where the
operating system does not provide virtual memory. Note that the same
memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or
decompression master record, and they will be released when that master
record is destroyed.

The memory manager does not provide explicit deallocation of objects.
Instead, objects are created in "pools" of free storage, and a whole pool
can be freed at once. This approach helps prevent storage-leak bugs, and
it speeds up operations whenever malloc/free are slow (as they often are).
The pools can be regarded as lifetime identifiers for objects. Two
pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)
Permanent lifetime is used for parameters and tables that should be carried
across from one datastream to another; this includes all application-visible
parameters. Image lifetime is used for everything else. (A third lifetime,
JPOOL_PASS = one processing pass, was originally planned. However it was
dropped as not being worthwhile. The actual usage patterns are such that the
peak memory usage would be about the same anyway; and having per-pass storage
substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on
image size. Semantically they behave the same as small objects, but we
distinguish them for two reasons:
* On MS-DOS machines, large objects are referenced by FAR pointers,
  small objects by NEAR pointers.
* Pool allocation heuristics may differ for large and small objects.
Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.
   Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.
In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object

write_backing_store,

close_backing_store
On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height,
with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/structure.txt

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/ *
* transupp.c
*
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
* */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmainct.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains a floating-point implementation of the forward DCT (Discrete Cosine Transform).
 * *
 * This implementation should be more accurate than either of the integer DCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.
 * *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.
 * *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess the marker.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to some other language.
* A set of error-reporting macros are defined too. Some applications using the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jerror.h

No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
**************************************************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
 * this code has been modified to output "uncompressed GIF" files.        *
 * There is no trace of the LZW algorithm in this file.                   *
**************************************************************************
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */
/*
 *
 * This code is loosely based on ppmtogif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.  
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
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 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 *
 * We are also required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
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; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcsammmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcclrmmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jclrmmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcclrss2.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdsammx asm
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/*
 * jquant1.c
 *
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 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 */

No license file was found, but licenses were detected in source scan.
Most of the complexity here is associated with buffering input rows as required by the downsampler. See the comments at the head of jcsample.c for the downsampler's needs.

*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcprepct.c
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/*
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
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* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C)2011 D. R. Commander. All Rights Reserved.
*
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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

No license file was found, but licenses were detected in source scan.

/*
* jdcolext.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

No license file was found, but licenses were detected in source scan.

/*
* wrrle.c
* 
*/
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrrle.c
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} 

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90.tar.gz/libjpeg-turbo-1.2.90/release/License.rtf

No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes? */
/* (If not, you also need to use ansi2knr, see install.txt) */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ? */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

Open Source Used In Tetration 3.5.1  20254
/* Define "void" as 'char' if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
 */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
 */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
 */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES
/* Although a real ANSI C compiler can deal perfectly well with pointers to *
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI *
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, *
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you *
* actually get "missing structure definition" warnings or errors while *
* compiling the JPEG code. */

#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#endif
#endif /* _RPCNDR_H__ */
#undef HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be *
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical *
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition. */
#endif /* JPEG_INTERNALS */

#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin.  You MUST do this if
* your system can't cope with binary I/O to stdin/stdout.  See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't.  If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/jconfig.txt
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*/
* jmorecfg.h
*
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* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmorecfg.h
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/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdcolmap.c
/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdhuff.h

No license file was found, but licenses were detected in source scan.

/*
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 * modification, are permitted provided that the following conditions are met:
 * - Redistributions of source code must retain the above copyright notice,
 *   this list of conditions and the following disclaimer.
 * - Redistributions in binary form must reproduce the above copyright notice,
 *   this list of conditions and the following disclaimer in the documentation
 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 * contributors may be used to endorse or promote products derived from this
 * software without specific prior written permission.
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 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/java/TJBench.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/tjbench.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/turbojpeg.c

No license file was found, but licenses were detected in source scan.

Configurer 2014-01-01

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdmrgext.c

No license file was found, but licenses were detected in source scan.

Configurer 2014-01-01

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column.  Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
  * multiplication; this allows a very simple and accurate implementation in
  * scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/wrtarga.c

No license file was found, but licenses were detected in source scan.

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

/*
 * jQuery UI 1.7.2
 *
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 *
 * http://docs.jquery.com/UI
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains portable arithmetic entropy decoding routines for JPEG
 *
* Both sequential and progressive modes are supported in this single module.
 *
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains Huffman entropy encoding routines.
 *
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jcparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.

* Note that the IDCT routines are responsible for performing coefficient
dequantization as well as the IDCT proper. This module sets up the
dequantization multiplier table needed by the IDCT routine.

*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/*
 *
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 *
/*

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegcomp.h

No license file was found, but licenses were detected in source scan.

/*
 *
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 *
/*

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jctrans.c

No license file was found, but licenses were detected in source scan.

/*
 *
 * jdct.h

---

Open Source Used In Tetration 3.5.1 20265
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (j dctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/ cola/ permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg- turbo-1-2.90/jdct.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications, some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of JOCTETs from 8-bit-wide elements on external storage. If char is wider than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ cola/ permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg- turbo-1-2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_arm.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jdphuff.c

No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64,
and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as
libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its
highly-optimized Huffman coding routines. In many cases, the performance of
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.
libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************

** License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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*******************************************************************************
** Using libjpeg-turbo
******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

Installation Directory
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

Replacing libjpeg at Run Time
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Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s

Open Source Used In Tetration 3.5.1 20269
sys  0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:SLD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys  0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside
the (hidden) application bundle, so it is not possible to globally replace
libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add `c:\libjpeg-turbo[64]\include` to the system or user INCLUDE environment
variable and \texttt{c:\libjpeg-turbo[64]\lib} to the system or user \texttt{LIB} environment variable, and then link against either \texttt{jpeg.lib} (to use the DLL version of libjpeg-turbo) or \texttt{jpeg-static.lib} (to use the static version of libjpeg-turbo.)

\section*{Colors\textcolor{red}{space Extensions}}

\textcolor{red}{libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:}

\begin{verbatim}
JCS_EXT_RGB   /* red/green/blue */
JCS_EXT_RGBX  /* red/green/blue/x */
JCS_EXT_BGR   /* blue/green/red */
JCS_EXT_BGRX  /* blue/green/red/x */
JCS_EXT_XBGR  /* x/blue/green/red */
JCS_EXT_XRGB  /* x/red/green/blue */
JCS_EXT_RGBA  /* red/green/blue/alpha */
JCS_EXT_BGRA  /* blue/green/red/alpha */
JCS_EXT_ABGR  /* alpha/blue/green/red */
JCS_EXT_ARGB  /* alpha/red/green/blue */
\end{verbatim}

Setting \texttt{cinfo.in\_color\_space} (compression) or \texttt{cinfo.out\_color\_space} (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

\texttt{#ifdef JCS\_EXTENSIONS}

At run time, attempting to use these extensions with a \texttt{libjpeg} implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS\_EXT\_RGBA, JCS\_EXT\_BGRA, JCS\_EXT\_ABGR, or JCS\_EXT\_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:
#ifdef JCS_ALPHA_EXTENSIONS

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================

libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
--------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
  cinfo.scale_num and cinfo.scale_denom are silently ignored.
  There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
  cinfo.block_size is silently ignored.
  SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.
-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

===================================== 
In-Memory Source/Destination Managers
===================================== 

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.
On Un*x systems, including the in-memory source/destination managers changes
dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI
emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a
function in a library until that function is actually used. Thus, if a program
is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(),
that program will not fail if run against an older version of libjpeg-turbo or
against libjpeg v7- until the program actually tries to call jpeg_mem_src() or
jpeg_mem_dest(). Such is not the case on Windows. If a program is built
against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(),
then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory
source/destination manager functions. See their respective man pages for more
details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg
v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to
be identical (the accuracy of the floating point DCT/IDCT is constant when
using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on
the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is
still using the same algorithms as libjpeg v6b, so there are several specific
cases in which libjpeg-turbo cannot be expected to produce the same output as
libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8
  implements those scaling algorithms a bit differently than libjpeg v6b does,
  and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this
with its DCT/IDCT scaling algorithms rather than with a separate
downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to
improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
"non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

----------------------------------------------------------------------------------------------------------------------------------
** Performance Pitfalls
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==============
Restart Markers
==============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/112578154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/
Open Source Used In Tetration 3.5.1  20278

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library.
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.
*****************************************************************************
 *
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-jdinput.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 */
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
to include only information relevant to libjpeg-turbo, to wordsmith certain
sections, and to remove impolitic language that existed in the libjpeg v8
README. It is included only for reference. Please see README-turbo.txt for
information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
=============================================

This distribution contains a release of the Independent JPEG Group's free JPEG
software. You are welcome to redistribute this software and to use it for any
purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
========================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:
User documentation:
install.txt  How to configure and install the IJG software.
usage.txt   Usage instructions for cjpeg, djpeg, jpegtran,
            rdjpgcom, and wrjpgcom.
*.1          Unix-style man pages for programs (same info as usage.txt).
wizard.txt  Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c  Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG's strong suit is compressing
photographic images or other types of images that have smooth color and
brightness transitions between neighboring pixels. Images with sharp lines or
other abrupt features may not compress well with JPEG, and a higher JPEG
quality may have to be used to avoid visible compression artifacts with such
images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to
the input pixels. However, on photographic content and other "smooth" images,
very good compression ratios can be obtained with no visible compression
artifacts, and extremely high compression ratios are possible if you are
willing to sacrifice image quality (by reducing the "quality" setting in the
compressor.)

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.
We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."
REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.
A PostScript version of the JFIF document is available at
http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at
http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
I.J.G does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from
http://www.ijg.org/files/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although I.J.G's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
===============

The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together
with ITU-T SG16) currently promotes different formats containing the name
"JPEG" which are incompatible with original DCT-based JPEG. I.J.G therefore does
not support these formats (see REFERENCES). Indeed, one of the original
reasons for developing this free software was to help force convergence on
common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)
TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

;/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in japidstd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
 * /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
 * /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

%ifarch x86_64
 %define __lib lib64
 %else
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/usr/include
mv $RPM_BUILD_ROOT/opt/%{name}/include/* $RPM_BUILD_ROOT/usr/include
ln -sf /usr/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include/
ln -sf /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT%{_defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT%{_defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean

rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/lib32
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@
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Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in

No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcoefct.c

No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs. Libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. Libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

Libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]
Each IDCT routine is responsible for range-limiting its results and converting them to unsigned form (0..MAXISAMPLE). The raw outputs could be quite far out of range if the input data is corrupt, so a bulletproof range-limiting step is required. We use a mask-and-table-lookup method to do the combined operations quickly.

%define RANGE_MASK (MAXISAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size) sample rows of each component. Upsampling will normally produce max_v_samp_factor pixel rows from each row group (but this could vary if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

No license file was found, but licenses were detected in source scan.
1.2.90 (1.3 beta1)

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)
[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form “%define' expects a macro identifier”.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.
[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest".)

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient
version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo’s accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building
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libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.

[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.
[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
=====

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
=====

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
Initial release

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

;/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimd_none.c
No license file was found, but licenses were detected in source scan.

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# modification, are permitted provided that the following conditions are met:
# - Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
#   and/or other materials provided with the distribution.
# - Neither the name of the libjpeg-turbo Project nor the names of its
# contributors may be used to endorse or promote products derived from this
# software without specific prior written permission.
#
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# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
# INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
# CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGE.

#!/bin/sh

if [ ! "id -u" = "0" ]; then
echo "ERROR: This script must be executed as root"
exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM=`lsbom -s -f -l "$RECEIPT"/Contents/Archive.bom`
else
  LSBOM=`pkgutil --files "$MACPACKAGE`
fi

mylsbom()
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

Open Source Used in Tetration 3.5.1 20304
echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
    rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
    rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
    rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
    rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
    rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
    rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
    echo Removing package receipt ...
    rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
    echo Forgetting package $MACPACKAGE ...
    pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.
/* rdtarga.c */

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdtarga.c

No license file was found, but licenses were detected in source scan.

/*
* jaricom.c
* *
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* *
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jaricom.c

No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
*/
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
  * lossless transcoding between different JPEG file formats. It also
  * provides some lossless and sort-of-lossless transformations of JPEG data.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jjpegtran.c
No license file was found, but licenses were detected in source scan.

/*
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains application interface routines that are used for both
  * compression and decompression.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
  * making an initialization call to each one.
* *
* Logically, this code belongs in jcmaster.c. It's split out because
  * linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
  * without linking in the whole library.
* /
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * 
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jdmaint.c
 */
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmainct.c

No license file was found, but licenses were detected in source scan.

/ *
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jerror.c

No license file was found, but licenses were detected in source scan.

/ *
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapistd.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
} with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)
Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to “static type” or just ”type” as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:

struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".
It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/coderules.txt

No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 */
Open Source Used In Tetration 3.5.1 20313

* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
* virtual arrays;
* * control logic for swapping virtual arrays between main memory and
* backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

Found in path(s):

```
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jidctfst.c
```

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```
/*
* jidctint.c
*
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*
* This file contains a slow-but-accurate integer implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
```
* Algorihms with 11 Multiplications”, Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* 
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
* 
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
* 
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

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*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jidctint.c
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 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrbmp.c
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*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
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 */

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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jversion.h

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1.2040 commons-lang3 3.2.1

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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1.2046 go-colorable 0.1.6

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1.2048 patch 2.6 6.el6

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1.2053 polkit-pkla-compat 0.1 4.el7

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The following article from James A. Woods, one of the earlier authors of compress, explains its relationship to the Unisys patent on the LZW compression method:

As a co-author of 'compress' who has had contact with an attorney for Unisys (nee Sperry), I would like to relay a very basic admission from Unisys that noncommercial use of 'compress' is perfectly legal. 'Compress' is also commercially distributed by AT&T as part of Unix System 5 release 4, with no further restrictions placed upon the use of the binary, as far as I am aware.

From conversations with Professor Abraham Lempel and others, it appears that neither AT&T, Sun Microsystems, Hewlett Packard, nor IBM are paying any sort of license fees to Unisys in conjunction with patent #4,558,302. It may be true that some organizations are paying fees for data compression technology licensed from one or more of the many holders of compression patents, but this is all independent from 'compress'.

In particular, I received a letter at NASA dated October 1, 1987 from John B. Sowell of the Unisys law department, informing me for the first time that some form of LZW was patented. I naturally expressed skepticism that an algorithm could be patented (a murky legal area which remains so), stated that 'compress' is not identical to LZW, and in fact was designed, developed, and distributed before the ink on the patent was dry. Several telephone conversations later, Mr. Sowell intimated that they would *not* seek any fees from users of 'compress' but instead were signing licensees for hardware implementations of LZW.

So, regardless of what you believe about a shady legal area, if anyone from Unisys contacts you to extract tribute for the use of 'compress', please
tell them that, first, it is not theirs to begin with, and, second, there is someone who will testify in court about the conversation above. It is not even clear if anyone can "own" 'compress', since original developer Spencer Thomas, myself, and others placed the code in the public domain long before the adoption of the Berne copyright convention.

In light of the events above, it seems that the Free Software Foundation is being unduly paranoid about the use of 'compress'. Now I can well believe that FSF is more likely to be a legal target than a behemoth like AT&T, but if they are simply redistributing untouched free software developed years ago in the public sector, I see no problem.

Aside: I am investigating, possibly for a case history to be recycled to USENET, the particulars of data compression patents. I am aware of the following patents: IBM's Miller-Wegman LZ variant, those of Telcor and ACT [losing candidates for the British Telecom modem standard], James A. Storer's work on limited lookahead as explicated in his text "Data Compression (methods and theory)", Computer Science Press, 1988, and the various patents pending associated with the Fiala and Greene CACM article of April, 1989 on textual substitution methods. If you have any lore, send it this way.

Sincerely,

James A. Woods
NASA Ames Research Center (RIACS)
jaw@riacs.edu (or ames!jaw)

P.S. The algorithm patent issue certainly is a "topic A" at the moment. One useful reference is the review article by Anthony and Colwell -- "Litigating the Validity and Infringement of Software Patents" in Washington and Lee Law Review, volume 41, fall 1984. I know Robert Colwell personally. As a practicing patent attorney, he tells me that, at a minimum, use of an invention "for research purposes" is legitimate.
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Found in path(s):
* /opt/cola/permits/1137275159_1614044580.83/0/python-singledispatch-3.4.0.2-2.el7-1.src.rpm-cosi-expand-archive-FK0Adbrk/python-singledispatch.spec
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No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: singledispatch
Version: 3.4.0.2
Summary: This library brings functools.singledispatch from Python 3.4 to Python 2.6-3.3.
Home-page: http://docs.python.org/3/library/functools.html#functools.singledispatch
Author: ukasz Langa
Author-email: lukasz@langa.pl
License: MIT
Description: ==============

```
singledispatch
```

```
`PEP 443 <http://www.python.org/dev/peps/pep-0443/>`_ proposed to expose a mechanism in the `functools` standard library module in Python 3.4 that provides a simple form of generic programming known as single-dispatch generic functions.

This library is a backport of this functionality to Python 2.6 - 3.3.

To define a generic function, decorate it with the `@singledispatch` decorator. Note that the dispatch happens on the type of the first argument, create your function accordingly:

```python
>>> from singledispatch import singledispatch
>>> @singledispatch
... def fun(arg, verbose=False):
...     pass
```
To add overloaded implementations to the function, use the `register()` attribute of the generic function. It is a decorator, taking a type parameter and decorating a function implementing the operation for that type:

```python
>>> @fun.register(int)
... def _(arg, verbose=False):
...     if verbose:
...         print("Strength in numbers, eh?", end=" ")
...     print(arg)

>>> @fun.register(list)
... def _(arg, verbose=False):
...     if verbose:
...         print("Enumerate this:"")
...     for i, elem in enumerate(arg):
...         print(i, elem)
```

To enable registering lambdas and pre-existing functions, the `register()` attribute can be used in a functional form:

```python
>>> def nothing(arg, verbose=False):
...     print("Nothing.""
... >>> fun.register(type(None), nothing)
```

The `register()` attribute returns the undecorated function which enables decorator stacking, pickling, as well as creating unit tests for each variant independently:

```python
>>> @fun.register(float)
... @fun.register(Decimal)
... def fun_num(arg, verbose=False):
...     if verbose:
...         print("Half of your number:", end=" ")
...     print(arg / 2)

>>> fun_num is fun
False
```

When called, the generic function dispatches on the type of the first argument:

```python
>>> fun("Hello, world.")
```
Hello, world.

>>> fun("test.", verbose=True)
Let me just say, test.

>>> fun(42, verbose=True)
Strength in numbers, eh? 42

>>> fun(['spam', 'spam', 'eggs', 'spam'], verbose=True)
Enumerate this:
0 spam
1 spam
2 eggs
3 spam

>>> fun(None)
Nothing.

>>> fun(1.23)
0.615

Where there is no registered implementation for a specific type, its method resolution order is used to find a more generic implementation. The original function decorated with `@singledispatch` is registered for the base `object` type, which means it is used if no better implementation is found.

To check which implementation will the generic function choose for a given type, use the `dispatch()` attribute:

>>> fun.dispatch(float)
<function fun_num at 0x1035a2840>

>>> fun.dispatch(dict)  # note: default implementation
<function fun at 0x103fe0000>

To access all registered implementations, use the read-only `registry` attribute:

>>> fun.registry.keys()
dict_keys([<class 'NoneType'>, <class 'int'>, <class 'object'>,
            <class 'decimal.Decimal'>, <class 'list'>,
            <class 'float'>])

>>> fun.registry[float]
<function fun_num at 0x1035a2840>

>>> fun.registry[object]
<function fun at 0x103fe0000>

The vanilla documentation is available at http://docs.python.org/3/library/functools.html#functools.singledispatch.

Versioning
----------
This backport is intended to keep 100% compatibility with the vanilla release in Python 3.4+. To help maintaining a version you want and expect, a versioning scheme is used where:

* the first three numbers indicate the version of Python 3.x from which the backport is done

* a backport release number is provided after the last dot

For example, `3.4.0.0` is the **first** release of `singledispatch` compatible with the library found in Python **3.4.0**.

A single exception from the 100% compatibility principle is that bugs fixed before releasing another minor Python 3.x.y version **will be included** in the backport releases done in the mean time. This rule applies to bugs only.

Maintenance

This backport is maintained on BitBucket by ukasz Langa, one of the members of the core CPython team:

* `singledispatch Mercurial repository <https://bitbucket.org/ambv/singledispatch>`_

* `singledispatch issue tracker <https://bitbucket.org/ambv/singledispatch/issues>`_

Change Log

Updated to the reference implementation as of 02-July-2013.

* more predictable dispatch order when abstract base classes are in use:
  abstract base classes are now inserted into the MRO of the argument's class where their functionality is introduced, i.e. `issubclass(cls, abc)` returns True for the class itself but returns False for all its direct base classes. Implicit ABCs for a given class (either registered or inferred from the presence of a special method like `__len__`) are inserted directly after the last ABC explicitly listed in the MRO of said class. This also means there are less "ambiguous dispatch" exceptions raised.
* better test coverage and improved docstrings

3.4.0.1
~~~~~~~

Updated to the reference implementation as of 31-May-2013.

* better performance

* fixed a corner case with PEP 435 enums

* calls to `dispatch()` also cached

* dispatching algorithm now a module-level routine called `_find_impl()` with a simplified implementation and proper documentation

* `dispatch()` now handles all caching-related activities

* terminology more consistent: "overload" -> "implementation"

3.4.0.0
~~~~~~~

* the first public release compatible with 3.4.0

Conversion Process
------------------

This section is technical and should bother you only if you are wondering how this backport is produced. If the implementation details of this backport are not important for you, feel free to ignore the following content.

``single_dispatch`` is converted using `six` <http://pypi.python.org/pypi/six> so that a single codebase can be used for all compatible Python versions. Because a fully automatic conversion was not doable, I took the following branching approach:

* the ``upstream`` branch holds unchanged files synchronized from the upstream CPython repository. The synchronization is currently done by manually copying the required code parts and stating from which CPython changeset they come from. The tests should pass on Python 3.4 on this branch.

* the ``default`` branch holds the manually translated version and this is where all tests are run for all supported Python versions using Tox.
Keywords: single dispatch generic functions singledispatch genericfunctions decorator backport
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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1.2064 jcommander 1.35
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1.2065 python-iniparse 0.4-6.ph3
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iniparse/compat.py and tests/test_compat.py contain code derived from
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.2077 gawk 4.0.2 4.el7_3.1

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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/Conscrypt.java

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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2.jar/io/netty/handler/ssl/PemReader.java
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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/timeout/NotSslRecordException.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutException.java

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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutException.java
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1.2083 python-cheetah 2.4.1 1.el6

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1.2084 swagger-annotations 1.5.17

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
    /**
     * The name of the license.
     */
    String value();
}
```

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*/
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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---
abstract: 'Convert POD data to various other formats'
author:
- 'Russ Allbery <rra@stanford.edu>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
distribution_type: module
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.57_05'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: podlators
no_index:
directory:
  - t
  - inc
requires:
#!/usr/bin/perl

# pod2man -- Convert POD data to formatted *roff input.
#
# Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Man ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin.
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options, trying to retain backward compatibility with pod2man but
# allowing short forms as well. --lax is currently ignored.
my %options;
Getopt::Long::config ('bundling_override');
GetOptions (\%options, 'center=c=s', 'date=d=s', 'errors=e=s', 'fixed=f=s',
    'fixedbold=f=s', 'fixeditalic=i=s', 'fixedbolditalic=f=i=s', 'help|h',
    'lax|l', 'name|n=s', 'nourls', 'official|o', 'quotes|q=s',
    'release|r:s', 'section|s=s', 'stderr', 'verbose|v', 'utf8|u')
    or exit 1;
pod2usage (0) if $options{help};

# Official sets --center, but don't override things explicitly set.
if ($options{official} && !defined $options{center}) {
    $options{center} = 'Perl Programmers Reference Guide';
}

# Verbose is only our flag, not a Pod::Man flag.
my $verbose = $options{verbose};
delete $options{verbose};

# This isn't a valid Pod::Man option and is only accepted for backward # compatibility.
delete $options{lax};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter, pulling a pair of input and output off at # a time. For each file, we check whether the document was completely empty # and, if so, will remove the created file and exit with a non-zero exit # status.
my $parser = Pod::Man->new (%options);
my $status = 0;
my @files;

do {
    @files = splice (@ARGV, 0, 2);
    print " $files[1]\n" if $verbose;
    $parser->parse_from_file (@files);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $files[0]\n";
        if (defined ($files[1]) and $files[1] ne '-') {
            unlink $files[1] unless (-s $files[1]);
        }
    }
} while (@ARGV);
exit $status;

__END__

=head1 NAME

pod2man - Convert POD data to formatted *roff input
=head1 SYNOPSIS

pod2man [B<-center>=I<string>] [B<-date>=I<string>] [B<-errors>=I<style>]
[B<-fixed>=I<font>] [B<-fixedbold>=I<font>] [B<-fixeditalic>=I<font>]
[B<-fixedbolditalic>=I<font>] [B<-name>=I<name>] [B<-nourls>]
[B<-official>] [B<-quotes>=I<quotes>] [B<-release>=I<version>]
[B<-section>=I<manext>] [B<-stderr>] [B<-utf8>] [B<-verbose>]
[I<input>] [I<output>] ...

pod2man B<-help>

=over 4

=head1 DESCRIPTION

B<pod2man> is a front-end for Pod::Man, using it to generate *roff input
from POD source. The resulting *roff code is suitable for display on a
terminal using nroff(1), normally via man(1), or printing using troff(1).

I<input> is the file to read for POD source (the POD can be embedded in
code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if
given, is the file to which to write the formatted output. If I<output>
 isn't given, the formatted output is written to C<STDOUT>. Several POD
files can be processed in the same B<pod2man> invocation (saving module
load and compile times) by providing multiple pairs of I<input> and
I<output> files on the command line.

B<-section>, B<-release>, B<-center>, B<-date>, and B<-official> can
be used to set the headers and footers to use; if not given, Pod::Man will
assume various defaults. See below or L<Pod::Man> for details.

B<pod2man> assumes that your *roff formatters have a fixed-width font
named C<CW>. If yours is called something else (like C<CR>), use
B<-fixed> to specify it. This generally only matters for troff output
for printing. Similarly, you can set the fonts used for bold, italic, and
bold italic fixed-width output.

Besides the obvious pod conversions, Pod::Man, and therefore pod2man also
takes care of formatting func(), func(n), and simple variable references
like $foo or @bar so you don't have to use code escapes for them; complex
expressions like C<$fred['stuff']> will still need to be escaped, though.
It also translates dashes that aren't used as hyphens into en dashes, makes
long dashes--like this--into proper em dashes, fixes "paired quotes," and
takes care of several other troff-specific tweaks. See L<Pod::Man> for
complete information.

=over 4
Sets the centered page header to $string$. The default is "User Contributed Perl Documentation", but also see $--official$ below.

Set the left-hand footer string to this value. By default, the modification date of the input file will be used, or the current date if input comes from $STDIN$.

Set the error handling style. $die$ says to throw an exception on any POD formatting error. $stderr$ says to report errors on standard error, but not to throw an exception. $pod$ says to include a POD ERRORS section in the resulting documentation summarizing the errors. $none$ ignores POD errors entirely, as much as possible.

The default is $die$.

The fixed-width font to use for verbatim text and code. Defaults to $CW$. Some systems may want $CR$ instead. Only matters for troff(1) output.

Bold version of the fixed-width font. Defaults to $CB$. Only matters for troff(1) output.

Italic version of the fixed-width font (actually, something of a misnomer, since most fixed-width fonts only have an oblique version, not an italic version). Defaults to $CI$. Only matters for troff(1) output.

Bold italic (probably actually oblique) version of the fixed-width font. Pod::Man doesn't assume you have this, and defaults to $CB$. Some systems (such as Solaris) have this font available as $CX$. Only matters for troff(1) output.

Print out usage information.
No longer used.  B<pod2man> used to check its input for validity as a manual page, but this should now be done by L<podchecker(1)> instead. Accepted for backward compatibility; this option no longer does anything.

Set the name of the manual page to I<name>.  Without this option, the manual name is set to the uppercased base name of the file being converted unless the manual section is 3, in which case the path is parsed to see if it is a Perl module path.  If it is, a path like C<.../lib/Pod/Man.pm> is converted into a name like C<Pod::Man>.  This option, if given, overrides any automatic determination of the name.

Note that this option is probably not useful when converting multiple POD files at once.  The convention for Unix man pages for commands is for the man page title to be in all-uppercase even if the command isn't.

Normally, LZ<><> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL.  In other words:

L<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>.  This can produce less cluttered output in cases where the URLs are not particularly important.

Set the default header to indicate that this page is part of the standard Perl release, if B<--center> is not also given.

Sets the quote marks used to surround CE<lt>> text to I<quotes>.  If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.
I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text (but the font is still changed for troff output).

=item B<-r>, B<--release>

Set the centered footer. By default, this is the version of Perl you run B<pod2man> under. Note that some system an macro sets assume that the centered footer will be a modification date and will prepend something like "Last modified: "; if this is the case, you may want to set B<--release> to the last modified date and B<--date> to the version number.

=item B<-s>, B<--section>

Set the section for the C<.TH> macro. The standard section numbering convention is to use 1 for user commands, 2 for system calls, 3 for functions, 4 for devices, 5 for file formats, 6 for games, 7 for miscellaneous information, and 8 for administrator commands. There is a lot of variation here, however; some systems (like Solaris) use 4 for file formats, 5 for miscellaneous information, and 7 for devices. Still others use 1m instead of 8, or some mix of both. About the only section numbers that are reliably consistent are 1, 2, and 3.

By default, section 1 will be used unless the file ends in C<.pm>, in which case section 3 will be selected.

=item B<--stderr>

By default, B<pod2man> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2man> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-u>, B<--utf8>

By default, B<pod2man> produces the most conservative possible *roff output to try to ensure that it will work with as many different *roff implementations as possible. Many *roff implementations cannot handle non-ASCII characters, so this means all non-ASCII characters are converted either to a *roff escape sequence that tries to create a properly accented character (at least for troff output) or to C<X>.

This option says to instead output literal UTF-8 characters. If your *roff implementation can handle it, this is the best output format to use and avoids corruption of documents containing non-ASCII characters. However, be warned that *roff source with literal UTF-8 characters is not supported by many implementations and may even result in segfaults and
other bad behavior.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlipod(1)> for more information on the C<encoding> command.

=item B<-v>, B<--verbose>

Print out the name of each output file as it is being generated.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<errors=pod>), B<pod2man> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2man> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C<die>, B<pod2man> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2man> fails with errors, see L<Pod::Man> and L<Pod::Simple> for information about what those errors might mean.

=head1 EXAMPLES

    pod2man program > program.1
    pod2man SomeModule.pm /usr/perl/man/man3/SomeModule.3
    pod2man --section=7 note.pod > note.7

If you would like to print out a lot of man page continuously, you probably want to set the C and D registers to set contiguous page numbering and even/odd paging, at least on some versions of man(7).

    troff -man -rC1 -rD1 perl.1 perldata.1 perlsyn.1 ...

To get index entries on C<STDERR>, turn on the F register, as in:

    troff -man -rF1 perl.1

The indexing merely outputs messages via C<tm> for each major page, section, subsection, item, and any C<XE<lt>E<gt>> directives. See L<Pod::Man> for more details.
=head1 BUGS

Lots of this documentation is duplicated from L<Pod::Man>.

=head1 SEE ALSO

L<Pod::Man>, L<Pod::Simple>, L<man(1)>, L<nroff(1)>, L<perlpod(1)>,
L<podchecker(1)>, L<perlpodstyle(1)>, L<troff(1)>, L<man(7)>

The man page documenting the an macro set may be L<man(5)> instead of
L<man(7)> on your system.

The current version of this script is always available from its web site at
L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the
Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, based I<very> heavily on the original
B<pod2man> by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE

Allbery <rra@stanford.edu>.

This program is free software; you may redistribute it and/or modify it
under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-
  PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/lib/Pod/Text/Overstrike.pm
No license file was found, but licenses were detected in source scan.

# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
# version.

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-
  PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/lib/Pod/Text/Termcap.pm
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-
  PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/lib/Pod/Text/Termcap.pm
No license file was found, but licenses were detected in source scan.
license: perl

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/META.yml
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/perl-podlators.spec
No license file was found, but licenses were detected in source scan.

#!/perl

# pod2text -- Convert POD data to formatted ASCII text.
#
#   Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
#
# The driver script for Pod::Text, Pod::Text::Termcap, and Pod::Text::Color,
# invoked by perldoc -t among other things.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Text ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Take an initial pass through our options, looking for one of the form
# -<number>. We turn that into -w <number> for compatibility with the
# original pod2text script.
for (my $i = 0; $i < @ARGV; $i++) {
    last if $ARGV[$i] =~ /^--$/;
    if ($ARGV[$i] =~ /^-(\d+)/) {
        splice (@ARGV, $i++, 1, '-w', $1);
    }
}
# Insert -- into @ARGV before any single dash argument to hide it from # Getopt::Long; we want to interpret it as meaning stdin (which Pod::Simple # does correctly).
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options. Use the same names as Pod::Text for simplicity, and # default to sentence boundaries turned off for compatibility.
my %options;
$options{sentence} = 0;
Getopt::Long::config ('bundling');
GetOptions (%options, 'alt|a', 'code', 'color|c', 'errors=s', 'help|h',
   'indent|i=i', 'margin|left-margin|m=i', 'nourls',
   'overstrike|o', 'quotes|q=s', 'sentence|s', 'stderr', 'termcap|t',
   'utf8|u', 'width|w=i')
or exit 1;
pod2usage (1) if $options{help};

# Figure out what formatter we're going to use. -c overrides -t.
my $formatter = 'Pod::Text';
if (defined $options{color}) {
   $formatter = 'Pod::Text::Color';
   eval { require Term::ANSIColor; }
   if ($@) { die "-c (--color) requires Term::ANSIColor be installed\n"; }
   require Pod::Text::Color;
} elsif (defined $options{termcap}) {
   $formatter = 'Pod::Text::Termcap';
   require Pod::Text::Termcap;
} elsif (defined $options{overstrike}) {
   $formatter = 'Pod::Text::Overstrike';
   require Pod::Text::Overstrike;
}
delete @options{'color', 'termcap', 'overstrike'};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
   $options{errors} = 'die';
}

# Initialize and run the formatter.
my $parser = $formatter->new (%options);
my $status = 0;
do {
   my ($input, $output) = splice (@ARGV, 0, 2);
   $parser->parse_from_file ($input, $output);
   if ($parser->(CONTENTLESS)) {
      $status = 1;
      warn "$0: unable to format $input\n";
   }
}
if (defined ($output) and $output ne '-') {
    unlink $output unless (-s $output);
}
}
} while (@ARGV);
exit $status;

__END__

=for stopwords
-aclostu --alt --stderr Allbery --overstrike overstrike --termcap --utf8
UTF-8 subclasses --nourls

=head1 NAME

pod2text - Convert POD data to formatted ASCII text

=head1 SYNOPSIS

pod2text [B<-aclostu>] [B<-code>] [B<-errors>=I<style>] [B<-i> I<indent>]
S<B<-q> I<quotes>> [B<-nourls>] [B<-stderr>] S<B<-w> I<width>>
[I<input> [I<output> ...]]

pod2text B<-h>

=head1 DESCRIPTION

B<pod2text> is a front-end for Pod::Text and its subclasses. It uses them
to generate formatted ASCII text from POD source. It can optionally use
either termcap sequences or ANSI color escape sequences to format the text.

I<input> is the file to read for POD source (the POD can be embedded in
code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if
given, is the file to which to write the formatted output. If I<output>
isn't given, the formatted output is written to C<STDOUT>. Several POD
files can be processed in the same B<pod2text> invocation (saving module
load and compile times) by providing multiple pairs of I<input> and
I<output> files on the command line.

=head1 OPTIONS

=over 4

=item B<-a>, B<-alt>

Use an alternate output format that, among other things, uses a different
heading style and marks C=item entries with a colon in the left margin.
Include any non-POD text from the input file in the output as well. Useful for viewing code documented with POD blocks with the POD rendered and the code left intact.

Format the output with ANSI color escape sequences. Using this option requires that Term::ANSIColor be installed on your system.

Set the number of spaces to indent regular text, and the default indentation for \c<over> blocks. Defaults to 4 spaces if this option isn't given.

Set the error handling style. \c<die> says to throw an exception on any POD formatting error. \c<stderr> says to report errors on standard error, but not to throw an exception. \c<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. \c<none> ignores POD errors entirely, as much as possible.

The default is \c<die>.

Print out usage information and exit.

Print a blank line after a \c<head1> heading. Normally, no blank line is printed after \c<head1>, although one is still printed after \c<head2>, because this is the expected formatting for manual pages; if you're formatting arbitrary text documents, using this option is recommended.

The width of the left margin in spaces. Defaults to 0. This is the margin for all text, including headings, not the amount by which regular text is indented; for the latter, see \c<--indent> option.

Normally, LZ<> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:
L<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B<--overstrike>

Format the output with overstrike printing. Bold text is rendered as character, backspace, character. Italics and file names are rendered as underscore, backspace, character. Many pagers, such as B<less>, know how to convert this to bold or underlined text.

=item B<-q> I<quotes>, B<--quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text.

=item B<-s>, B<--sentence>

Assume each sentence ends with two spaces and try to preserve that spacing. Without this option, all consecutive whitespace in non-verbatim paragraphs is compressed into a single space.

=item B<--stderr>

By default, B<pod2text> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2text> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-t>, B<--termcap>

Try to determine the width of the screen and the bold and underline sequences for the terminal from termcap, and use that information in formatting the output. Output will be wrapped at two columns less than the
width of your terminal device. Using this option requires that your system
have a termcap file somewhere where Term::Cap can find it and requires that
your system support termios. With this option, the output of B<pod2text>
will contain terminal control sequences for your current terminal type.

=item B<-u>, B<--utf8>

By default, B<pod2text> tries to use the same output encoding as its input
encoding (to be backward-compatible with older versions). This option
says to instead force the output encoding to UTF-8.

Be aware that, when using this option, the input encoding of your POD
source must be properly declared unless it is US-ASCII or Latin-1. POD
input without an C<=encoding> command will be assumed to be in Latin-1,
and if it's actually in UTF-8, the output will be double-encoded. See
L<perlpod(1)> for more information on the C<=encoding> command.

=item B<-w>, B<--width=>I<width>, B<->I<width>

The column at which to wrap text on the right-hand side. Defaults to 76,
unless B<-t> is given, in which case it's two columns less than the width of
your terminal device.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that
output includes errata (a C<POD ERRORS> section generated with
C<--errors=pod>), B<pod2text> will exit with status 0. If any of the
documents being processed do not result in an output document, B<pod2text>
will exit with status 1. If there are syntax errors in a POD document
being processed and the error handling style is set to the default of
C<die>, B<pod2text> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2text> fails with errors, see L<Pod::Text> and L<Pod::Simple> for
information about what those errors might mean. Internally, it can also
produce the following diagnostics:

=over 4

=item -c (--color) requires Term::ANSIColor be installed

(F) B<-c> or B<--color> were given, but Term::ANSIColor could not be
loaded.
Unknown option: %s

(F) An unknown command line option was given.

In addition, other `Getopt::Long` error messages may result from invalid command-line options.

ENVIRONMENT

If `-t` is given, `pod2text` will take the current width of your screen from this environment variable, if available. It overrides terminal width information in `TERMCAP`.

TERMCAP

If `-t` is given, `pod2text` will use the contents of this environment variable if available to determine the correct formatting sequences for your current terminal device.

SEE ALSO

`Pod::Text`, `Pod::Text::Color`, `Pod::Text::Overstrike`, `Pod::Text::Termcap`, `Pod::Simple`, `perlpod(1)`

The current version of this script is always available from its web site at `http://www.eyrie.org/~eagle/software/podlators/`. It is also part of the Perl core distribution as of 5.6.0.

AUTHOR

Russ Allbery <rra@stanford.edu>.

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=cut

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/scripts/pod2text

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/filehandle.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/lib/Pod/Man.pm
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/pod.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/basic.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/pod-parser.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/overstrike.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/man.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/termcap.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/text.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/text-options.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/man-utf8.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/text-encoding.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/lib/Pod/ParseLink.pm
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/pod-spelling.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/man-heading.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/color.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/text.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/man.options.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/text-perlio.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-
perlpodstyle - Perl POD style guide

=head1 NAME

perlpodstyle - Perl POD style guide

=head1 DESCRIPTION

These are general guidelines for how to write POD documentation for Perl scripts and modules, based on general guidelines for writing good UNIX man pages. All of these guidelines are, of course, optional, but following them will make your documentation more consistent with other documentation on the system.

The name of the program being documented is conventionally written in bold (using <tt>BE&lt;lt&gt;E&lt;gt&gt;</tt>) wherever it occurs, as are all program options. Arguments should be written in italics (<tt>IE&lt;lt&gt;E&lt;gt&gt;</tt>). Function names are traditionally written in italics; if you write a function as function(), Pod::Man will take care of this for you. Literal code or commands should be in <tt>CE&lt;lt&gt;E&lt;gt&gt;</tt>. References to other man pages should be in the form <tt>C&lt;manpage(section)&gt;</tt> or <tt>C&lt;LE&lt;lt&gt;manpage(section)E&lt;gt&gt;&gt;</tt>, and Pod::Man will automatically format those appropriately. The second form, with <tt>LE&lt;lt&gt;E&lt;gt&gt;</tt>, is used to request that a POD formatter make a link to the man page if possible. As an exception, one normally omits the section when referring to module documentation since it's not clear what section module documentation will be in; use <tt>C&lt;LE&lt;lt&gt;Module::NameE&lt;gt&gt;&gt;</tt> for module references instead.

References to other programs or functions are normally in the form of man page references so that cross-referencing tools can provide the user with links and the like. It's possible to overdo this, though, so be careful not to clutter your documentation with too much markup. References to other programs that are not given as man page references should be enclosed in <tt>BE&lt;lt&gt;E&lt;gt&gt;</tt>.

The major headers should be set out using a <tt>C&lt;head1&gt;</tt> directive, and are historically written in the rather startling ALL UPPER CASE format; this is not mandatory, but it's strongly recommended so that sections have consistent naming across different software packages. Minor headers may
be included using C<=>, and are typically in mixed case.

The standard sections of a manual page are:

=over 4
=item NAME

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

    foo, bar - programs to do something

Manual page indexers are often extremely picky about the format of this section, so don't put anything in it except this line. Every program or function documented by this POD page should be listed, separated by a comma and a space. For a Perl module, just give the module name. A single dash, and only a single dash, should separate the list of programs or functions from the description. Do not use any markup such as C<lt>E<gt> or BE<lt>E<gt> anywhere in this line. Functions should not be qualified with C<()> or the like. The description should ideally fit on a single line, even if a man program replaces the dash with a few tabs.

=item SYNOPSIS

A short usage summary for programs and functions. This section is mandatory for section 3 pages. For Perl module documentation, it's usually convenient to have the contents of this section be a verbatim block showing some (brief) examples of typical ways the module is used.

=item DESCRIPTION

Extended description and discussion of the program or functions, or the body of the documentation for man pages that document something else. If particularly long, it's a good idea to break this up into subsections C<=> directives like:

    =head2 Normal Usage

    =head2 Advanced Features

    =head2 Writing Configuration Files

or whatever is appropriate for your documentation.

For a module, this is generally where the documentation of the interfaces provided by the module goes, usually in the form of a list with an C<=> for each interface. Depending on how many interfaces there are,
you may want to put that documentation in separate METHODS, FUNCTIONS,
CLASS METHODS, or INSTANCE METHODS sections instead and save the
DESCRIPTION section for an overview.

=item OPTIONS

Detailed description of each of the command-line options taken by the
program. This should be separate from the description for the use of
parsers like L<Pod::Usage>. This is normally presented as a list, with
each option as a separate C=item>. The specific option string should be
enclosed in BE<lt>E<gt>. Any values that the option takes should be
enclosed in IE<lt>E<gt>. For example, the section for the option
B <--section>=I<manext> would be introduced with:

   =item B <--section>=I<manext>

Synonymous options (like both the short and long forms) are separated by a
comma and a space on the same C=item> line, or optionally listed as their
own item with a reference to the canonical name. For example, since
B <--section> can also be written as B <-s>, the above would be:

   =item B <-s> I<manext>, B <--section>=I<manext>

Writing the short option first is recommended because it's easier to read.
The long option is long enough to draw the eye to it anyway and the short
option can otherwise get lost in visual noise.

=item RETURN VALUE

What the program or function returns, if successful. This section can be
omitted for programs whose precise exit codes aren't important, provided
they return 0 on success and non-zero on failure as is standard. It
should always be present for functions. For modules, it may be useful to
summarize return values from the module interface here, or it may be more
useful to discuss return values separately in the documentation of each
function or method the module provides.

=item ERRORS

Exceptions, error return codes, exit statuses, and errno settings.
Typically used for function or module documentation; program documentation
uses DIAGNOSTICS instead. The general rule of thumb is that errors
printed to C<STDOUT> or C<STDERR> and intended for the end user are
documented in DIAGNOSTICS while errors passed internal to the calling
program and intended for other programmers are documented in ERRORS. When
documenting a function that sets errno, a full list of the possible errno
values should be given here.
=item DIAGNOSTICS

All possible messages the program can print out and what they mean. You may wish to follow the same documentation style as the Perl documentation; see perldiag(1) for more details (and look at the POD source as well).

If applicable, please include details on what the user should do to correct the error; documenting an error as indicating "the input buffer is too small" without telling the user how to increase the size of the input buffer (or at least telling them that it isn't possible) aren't very useful.

=item EXAMPLES

Give some example uses of the program or function. Don't skimp; users often find this the most useful part of the documentation. The examples are generally given as verbatim paragraphs.

Don't just present an example without explaining what it does. Adding a short paragraph saying what the example will do can increase the value of the example immensely.

=item ENVIRONMENT

Environment variables that the program cares about, normally presented as a list using C<over>, C<item>, and C<back>. For example:

  =over 6

  =item HOME

  Used to determine the user's home directory. F<.foorc> in this directory is read for configuration details, if it exists.

  =back

Since environment variables are normally in all uppercase, no additional special formatting is generally needed; they're glaring enough as it is.

=item FILES

All files used by the program or function, normally presented as a list, and what it uses them for. File names should be enclosed in F<lt>E<gt>. It's particularly important to document files that will be potentially modified.

=item CAVEATS
Things to take special care with, sometimes called WARNINGS.

=item BUGS

Things that are broken or just don't work quite right.

=item RESTRICTIONS

Bugs you don't plan to fix. :-) 

=item NOTES

Miscellaneous commentary.

=item AUTHOR

Who wrote it (use AUTHORS for multiple people). It's a good idea to include your current e-mail address (or some e-mail address to which bug reports should be sent) or some other contact information so that users have a way of contacting you. Remember that program documentation tends to roam the wild for far longer than you expect and pick a contact method that's likely to last.

=item HISTORY

Programs derived from other sources sometimes have this. Some people keep a modification log here, but that usually gets long and is normally better maintained in a separate file.

=item COPYRIGHT AND LICENSE

For copyright

    Copyright YEAR(s) YOUR NAME(s)

(No, (C) is not needed. No, "all rights reserved" is not needed.)

For licensing the easiest way is to use the same licensing as Perl itself:

    This library is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

This makes it easy for people to use your module with Perl. Note that this licensing example is neither an endorsement or a requirement, you are of course free to choose any licensing.

=item SEE ALSO
Other man pages to check out, like man(1), man(7), makewhatis(8), or catman(8). Normally a simple list of man pages separated by commas, or a paragraph giving the name of a reference work. Man page references, if they use the standard C<name(section)> form, don't have to be enclosed in LE<lt>E<gt> (although it's recommended), but other things in this section probably should be when appropriate.

If the package has a mailing list, include a URL or subscription instructions here.

If the package has a web site, include a URL here.

=back

Documentation of object-oriented libraries or modules may want to use CONSTRUCTORS and METHODS sections, or CLASS METHODS and INSTANCE METHODS sections, for detailed documentation of the parts of the library and save the DESCRIPTION section for an overview. Large modules with a function interface may want to use FUNCTIONS for similar reasons. Some people use OVERVIEW to summarize the description if it's quite long.

Section ordering varies, although NAME must always be the first section (you'll break some man page systems otherwise), and NAME, SYNOPSIS, DESCRIPTION, and OPTIONS generally always occur first and in that order if present. In general, SEE ALSO, AUTHOR, and similar material should be left for last. Some systems also move WARNINGS and NOTES to last. The order given above should be reasonable for most purposes.

Some systems use CONFORMING TO to note conformance to relevant standards and MT-LEVEL to note safeness for use in threaded programs or signal handlers. These headings are primarily useful when documenting parts of a C library.

Finally, as a general note, try not to use an excessive amount of markup. As documented here and in L<Pod::Man>, you can safely leave Perl variables, function names, man page references, and the like unadorned by markup and the POD translators will figure it out for you. This makes it much easier to later edit the documentation. Note that many existing translators will do the wrong thing with e-mail addresses when wrapped in LE<lt>E<gt>, so don't do that.

=head1 SEE ALSO

For additional information that may be more accurate for your specific system, see either L<man(5)> or L<man(7)> depending on your system manual section numbering conventions.

This documentation is maintained as part of the podlators distribution.
The current version is always available from its web site at <http://www.eyrie.org/~eagle/software/podlators/>.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, with large portions of this documentation taken from the documentation of the original B<pod2man> implementation by Larry Wall and Tom Christiansen.

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=cut

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvlT/podlators-2.5.1/pod/perlpodstyle.pod

1.2087 lz4 2.16.840

1.2087.1 Available under license:

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- all other files use a GPLv2 license, unless explicitly stated otherwise

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This model is selected to emphasize that files in the `lib` directory are designed to be included into 3rd party applications, while all other files, in `programs`, `tests` or `examples`, receive more limited attention and support for such scenario.

LZ4 Library
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   in the event an application does not supply such function or
   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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1.2092 file 5.04 30.el6

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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/json/package-info.java
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- /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/Crc32.java
- /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/AsciiHeadersEncoder.java
- /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/Lz4Constants.java
- /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
- /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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- /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/LzfDecoder.java
- /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
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*/

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *<p>
 *{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 *that it can decode any message with a length field, which is often seen in
 *proprietary client-server protocols. Here are some example that will give
 *you the basic idea on which option does what.
 *</p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *<p>
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *<pre>
 *<b>lengthFieldOffset</b> = <b>0</b>
 *<b>lengthFieldLength</b> = <b>2</b>
 */
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
  +--------+----------------+      +--------+----------------+
  | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
  */
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
  * lengthFieldOffset = 0
  * lengthFieldLength = 2
  * lengthAdjustment = 0
  * initialBytesToStrip = 2 (= the length of the Length field)
  */
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
  +--------+----------------+      +--------+----------------+
  | Length | Actual Content |----->| Actual Content |
  * | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
  */
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* lengthAdjustment. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as lengthAdjustment for compensation.
* <pre>
  * lengthFieldOffset = 0
  * lengthFieldLength = 2
  * initialBytesToStrip = 2 (= the length of the Length field)
  */
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
  +--------+----------------+      +--------+----------------+
The following message is a simple variation of the first example. An extra header value is prepended to the message. \texttt{lengthAdjustment} is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive \texttt{lengthAdjustment} so that the decoder counts the extra header into the frame length calculation.

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.
The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
```
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/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
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 */

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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/ValueConverter.java

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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1.jar/io/netty/handler/codec/ValueConverter.java

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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/base64/PackageInfo.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/base64/HeaderEncoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/base64/HeaderDecoder.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */

1.2094 qpdf 8.0.2-3~14.04.1

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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
#
# In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Zstd-jni: JNI bindings to Zstd Library

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1.2105 scala 2.11.11

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/**
 * Latch used to implement waiting on a DefaultPromise's result.
 *
 * Inspired by: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/locks/AbstractQueuedSynchronizer.java
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 */

Found in path(s):
* /opt/cola/permits/1011581111_1611240383.69/0/scala-library-2-11-11-sources-
A `ClassTag[T]` stores the erased class of a given type `T`, accessible via the `runtimeClass` field. This is particularly useful for instantiating `Array`'s whose element types are unknown at compile time.

`ClassTag`'s are a weaker special case of `TypeTags`, in that they wrap only the runtime class of a given type, whereas a `TypeTag` contains all static type information. That is, `ClassTag`'s are constructed from knowing only the top-level class of a type, without necessarily knowing all of its argument types. This runtime information is enough for runtime `Array` creation.

For example:

```scala
def mkArray[T : ClassTag](elems: T*) = Array[T](elems: _*)
```

```scala
res0: Array[Int] = Array(42, 13)
```

```scala
res1: Array[String] = Array(Japan, Brazil, Germany)
```

See `TypeTags` for more examples, or the

Found in path(s):

```
/opt/cola/permits/1011581111_1611240383.69/0/scala-library-2-11-11-sources-jar/scala/reflect/ClassTag.scala
```

# 1.2106 curator-recipes 2.10.0

## 1.2106.1 Available under license:

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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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<table>
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Mersenne Twister

-------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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---------------------------------------------------------------------
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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-------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
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 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
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  jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
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/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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1.2118 netlibnativereflinux 1.1

1.2119 guice-assistedinject 4.1.0
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.2122 gpm 1.20.4 6.1 1.2122.1 Available under license :

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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Network Working Group    H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational    M. Bellare
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.2128 perl 5.16.3 294.el7_6

1.2128.1 Available under license:

From f5488561bdab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---

hv.c | 6 ++++++
sv.c | 7 +++++--
t/op/svleak.t | 22 +++++++++++++++++++++-
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
const I32 riter = HvRITER_get(ohv);
HE * const eiter = HvEITER_get(ohv);

+ENTER;
+SAVEFREESV(hv);
+
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
}@ return hv;

hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
} +/* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
    new_SV(sv);
-    /* SV_GMAGIC is the default for sv_setv() 
-       SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
+    /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
         with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}
diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
or skip_all("XS::APItest not available");
}

-plan tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
    undef $h;
}, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE    { $_[0][0]{$_[1]} = $_[2] }  
+    sub FETCH    { die if $explosive; $_[0][0]{$_[1]} }  
+    sub FIRSTKEY { keys %$_[0][0]; each %$_[0][0] }  
+    sub NEXTKEY  { each %$_[0][0] }  
+}
+leak(2,!!$Config{mad}, sub {
+    eval q`
+    	BEGIN {
+        $hhtie::explosive = 0;
+        tie %^H, hhtie;
+        $^H{foo} = bar;
+        $hhtie::explosive = 1;
+    }
+    	{ 1; }
+    `);
+}, 'hint-hash copying does not leak');
--
1.8.1.4

--------------------------------------------------------------------------

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---

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  repository: http://github.com/dagolden/module-build/
  version: 3
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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
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"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Gnomovision version 69, Copyright (C) 19xx name of author
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');
# Create test distribution
#
{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl',
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl', "license 'perl' is valid" );

    my $meta = $mb->get_metadata( fatal => 0 );

    is( $meta->{license} => 'perl', "META license will be 'perl'" );
    is( $meta->{resources}{license}, "http://dev.perl.org/licenses/", "META license URL is correct" );
}

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'VaporWare',
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'VaporWare', "license 'VaporWare' is valid" );

    my $meta = $mb->get_metadata( fatal => 0 );
}
The "Artistic License"

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The End
1.2129 coreutils 8.23-4
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1.2130 play-exceptions 2.6.15

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1.2135 libteam 1.29 1.el7

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1.2136 libjpeg 9c

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 *
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 * This file contains tables and miscellaneous utility routines needed
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 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 * Most of the complexity here is associated with buffering input rows
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 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdbmp.c
No license file was found, but licenses were detected in source scan.

/**
 * ckconfig.c
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/ckconfig.c
No license file was found, but licenses were detected in source scan.

/**
 * jchuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2013 by Guido Vollbeding.
 */
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
 *
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
 *
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmaster.c

No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
/configure

and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type

sh configure

instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say

./configure --disable-shared

If you want to build libjpeg only as a shared library, say

./configure --disable-static

Configure uses GNU libtool to take care of system-dependent shared library
building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example

./configure CC='cc'

The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say

./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
You can override this by saying, for example,

./configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
into /usr/local/bin, /usr/local/man, etc. You can specify an installation
prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG
software's internal virtual memory mechanism. To do this, give the option

"--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
This is discussed in more detail under "Selecting a memory manager", below.
You probably don't need to worry about this on reasonably-sized Unix machines,
unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those
features, you probably already know how to use them.
Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manxjconfig.manx Amiga, Manx Aztec C
makefile.sasjconfig.sas Amiga, SAS C
makeproj.macjconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.stjconfig.stAtari ST/STE/TT, Pure C or Turbo C
makefile.bccjconfig.bcc MS-DOS or OS/2, Borland C
makefile.djjconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vcjconfig.vc Windows, MS Visual C++
makefile.vsjconfig.vc Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vsjconfig.vc Windows, Visual Studio 2017 (v15)
make*.v15
makefile.b32jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig.vms Digital VMS, with MMS software
makefile.vmsjconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckenfig.c program. You will need to compile and execute ckenfig.c by hand --- we hope you know at least enough to do that. Ckenfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckenfig.c according to the directions given in ckenfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.
Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
-------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)
To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
---------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-)). This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM
setting to a reasonable value for your system (either by adding a #define for
DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile).
This value limits the amount of data space the program will attempt to
allocate. Code and static data space isn't counted, so the actual memory
needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory
setting. Larger max-memory settings reduce the amount of I/O needed to
process a large image, but too large a value can result in "insufficient
memory" failures. On most Unix machines (and other systems with virtual
memory), just set DEFAULT_MAX_MEM to several million and forget it. At the
other end of the spectrum, for MS-DOS machines you probably can't go much
above 300K to 400K. (On MS-DOS the value refers to conventional memory only.
Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=======================

Now you should be able to compile the software. Just say "make" (or
whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to
shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the
wrong ones, read jinclude.h. This shouldn't happen if you used configure
or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters;
some compilers will issue warnings about this, which you can ignore. There
are also a few configuration checks that may give "unreachable code" warnings.
Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
=========================

As a quick test of functionality we've included a small sample image in
several forms:
testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testing.ppm
testprog.jpg: Progressive-mode equivalent of testorig.jpg.

testimgp.jpg: The output of cjpeg -progressive -optimize testimg.ppm.

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testing* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAXALLOC_CHUNK is wrong, please fix", then you need to reduce MAXALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAXALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

====================================
Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

**OPTIONAL STUFF**

---

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

**Utah RLE file format support:**

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.
Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx
If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
==========================

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line `.c.o: $(cc) $< $(cflags) -c -o $@`. Remove the lines `$(RM) libjpeg.o` and `$(AR2) libjpeg.o` and the `jconfig.h` dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.
We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading
"#pragma novector" just before the loop
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c). [This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say
../configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:
The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part. The CodeWarrior source code is available from http://www.pobox.com/~jsam.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)

NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FILENO or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.
The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a
large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemnobs.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemnobs.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

You'll still need to be careful about binary I/O through stdin(stdout).
See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines).
Although Borland C will often work OK with unmodified Unix (LF newlines)
source files, sometimes it will give bogus compile errors.
"Illegal character ‘#’" is the most common such error. (This is true with
Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.bcc already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only
be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called
"makefile". If you want to call it something else, say "makefile.mak",
be sure to adjust the dependency line that reads "$(RFILE) : makefile".
Otherwise the make will fail because it doesn't know how to create "makefile".
Worse, some releases of Microsoft's make utilities give an incorrect error
message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error
because they can't cope with the macro TRACEMS8 (defined in jerror.h).
If this happens to you, the easiest solution is to change TRACEMS8 to
expand to nothing. You'll lose the ability to dump out JPEG coefficient
tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn
off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it
still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ...
which is on by default. To work around this bug, compile that one file
with /Oo-.
Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(SetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)
The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_XXX macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.
3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type, methodname, arglist) \
    type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```c
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```c
/* If image width is odd, do the last output column separately */
if ((cinfo->output_width & 1) {  
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */  
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample() doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).
Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:

-Opt -Og
-Opt -Op
-Opt -Om

So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory
model. makefile.vc is intended for command-line use. (If you are using
the Developer Studio environment, you may prefer the DevStudio project
files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put
extern "C" [...] around #include "jpeglib.h" in your C++ application.
You can also force VC++ to treat the library as C++ code by renaming
all the *.c files to *.cpp (and adjusting the makefile to match).
In this case you also need to define the symbol DONT_USE_EXTERN_C in
the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio
6.0 or later. There is a library makefile that builds the IJG library as
a static Win32 library, and application makefiles that build the sample
applications as Win32 console applications. (Even if you only want the
library, we recommend building the applications so that you can run the
self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the
   command line
   NMAKE /f makefile.vs  setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll
   probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs  test-build
5. Move the application .exe files from `app\Release to an
   appropriate location on your path.
Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   \n   NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   \n   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "$AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying
   \n   ./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2"
reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmainct.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmendosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
  * jerror.c
  *
  * Copyright (C) 1991-1998, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains simple error-reporting and trace-message routines.
  * These are suitable for Unix-like systems and others where writing to
  * stderr is the right thing to do. Many applications will want to replace
  * some or all of these routines.
  *
  * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
  * you get a Windows-specific hack to display error messages in a dialog box.
  * It ain't much, but it beats dropping error messages into the bit bucket,
  * which is what happens to output to stdout under most Windows C compilers.
  *
  * These routines are used by both the compression and decompression code.
  */

Found in path(s):
  */opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jerror.c
No license file was found, but licenses were detected in source scan.

/*
  * jidctflt.c
  *
  * Copyright (C) 1994-1998, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains a floating-point implementation of the
  * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
  * must also perform dequantization of the input coefficients.
  *
  * This implementation should be more accurate than either of the integer
  * IDCT implementations. However, it may not give the same results on all
  * machines because of differences in roundoff behavior. Speed will depend
  * on the hardware's floating point capacity.
  *
  * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
  * on each row (or vice versa, but it's more convenient to emit a row at
  * a time). Direct algorithms are also available, but they are much more
  * complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

/*
 * jmemname.c
 *
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

/*
 * jaricom.c
 *
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.

* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jaricom.c

No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Intl. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jidctint.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.
A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object...
also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
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Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.
For best results, source data values should have the precision specified by 
BIT_SIZE_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress 
data that's only 6 bits/channel, you should left-justify each value in a 
byte before passing it to the compressor. If you need to compress data 
that has more than 8 bits/channel, compile with BIT_SIZE_IN_JSAMPLE = 9 to 12. 
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, 
except that colormapped output is supported. (Again, a JPEG file is never 
colormapped. But you can ask the decompressor to perform on-the-fly color 
quantization to deliver colormapped output.) If you request colormapped 
output then the returned data array contains a single JSAMPLE per pixel; 
its value is an index into a color map. The color map is represented as 
a 2-D JSAMPARRAY in which each row holds the values of one color component, 
that is, colormap[i][j] is the value of the i'th color component for pixel 
value (map index) j. Note that since the colormap indexes are stored in 
JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE 
(ie, at most 256 colors for an 8-bit JPEG library).

Compression details
--------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has 
a bunch of subsidiary structures which are allocated via malloc(), but the 
application doesn't control those directly.) This struct can be just a local 
variable in the calling routine, if a single routine is going to execute the 
whole JPEG compression sequence. Otherwise it can be static or allocated 
from malloc().

You will also need a structure representing a JPEG error handler. The part 
of this that the library cares about is a "struct jpeg_error_mgr". If you 
are providing your own error handler, you'll typically want to embed the 
jpeg_error_mgr struct in a larger structure; this is discussed later under 
"Error handling". For now we'll assume you are just using the default error 
handler. The default error handler will print JPEG error/warning messages 
on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into 
the JPEG object's "err" field, and then call jpeg_create_compress() to 
initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is
structure jpeg_compress_struct cinfo;
structure jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);

jpeg_create_compress allocates a small amount of memory, so it could fail
if you are out of memory. In that case it will exit via the error handler;
that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a
"data destination" module. The library includes one data destination
module which knows how to write to a stdio stream. You can use your own
destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio
stream beforehand. Typical code for this step looks like:

FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the
output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between
calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following
fields in the JPEG object (cinfo structure):
The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
jinfo.image_width = Width; /* image width and height, in pixels */
jinfo.image_height = Height;
jinfo.input_components = 3; /* # of color components per pixel */
jinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&jinfo);
/* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
jpeg_start_compress(&jinfo, TRUE);
```
The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually
ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height,
  the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun
  will cause the compressor to return before accepting all the passed lines.
  This feature is discussed under "I/O suspension", below. The normal
  stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of
next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to
complete the compression cycle. This step is ESSENTIAL to ensure that the
last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG
object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output
stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code
optimization, jpeg_finish_compress() will perform the additional passes using
data buffered by the first pass. In this case jpeg_finish_compress() may take
quite a while to complete. With the default compression parameters, this will
not happen.

It is an error to call jpeg_finish_compress() before writing the necessary
total number of scanlines. If you wish to abort compression, call
jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object
as discussed next, or you may use it to compress another image. In that case
return to step 2, 3, or 4 as appropriate. If you do not change the
destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written
with the same parameters as before. Note that you can change the input image
dimensions freely between cycles, but if you change the input colorspace, you
should call jpeg_set_defaults() to adjust for the new colorspace; and then
you'll need to repeat all of step 3.

7. Release the JPEG compression object.
When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.
1. Allocate and initialize a JPEG decompression object.

   This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

   Typical code:

   ```c
   struct jpeg_decompress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_decompress(&cinfo);
   ```

   (Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

   As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

   If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

   ```c
   FILE * infile;
   ...
   if ((infile = fopen(filename, "rb")) == NULL) {
       fprintf(stderr, "can't open %s\n", filename);
       exit(1);
   }
   jpeg_stdio_src(&cinfo, infile);
   ```

   where the last line invokes the standard source module.

   WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

   You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from
a single source file, you should repeat the jpeg_read_header() to
jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from
being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning
of the compressed data proper. On return, the image dimensions and other
info have been stored in the JPEG object. The application may wish to
consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header()
  may return before it has read all the header data. See "I/O suspension",
  below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on
  abbreviated datastreams. Standard applications that deal only in
  interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the
image dimensions and other header info for a JPEG file. In that case,
call jpeg_destroy() when you are done with the JPEG object, or call
jpeg_abort() to return it to an idle state before selecting a new data
source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on
the properties of the image (in particular, its colorspace). However, you
may well want to alter these defaults before beginning the decompression.
For example, the default is to produce full color output from a color file.
If you want colormapped output you must ask for it. Other options allow the
returned image to be scaled and allow various speed/quality tradeoffs to be
selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header().
If you reuse a decompression object, you cannot expect your parameter
settings to be preserved across cycles, as you can for compression.
You must set desired parameter values each time.
5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width	image width and height, as scaled
output_height
t_out_color_components	# of color components in out_color_space
out_color_components	# of color components returned per pixel
colormap	the selected colormap, if any
actual_number_of_colors	# of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);
Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call
jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

```c
jpeg_destroy_decompress(&cinfo);
```


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged.
The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:
jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above). (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9). Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN. Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.
unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLs]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLs]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------
Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width	Width and height of image
JDIMENSION image_height
int num_components	Number of color components
J_COLOR_SPACE jpeg_color_space	Colorspace of image
boolean saw_JFIF_marker	TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version	Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit	Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker	TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform	Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.
The decompression parameters that determine the basic properties of the returned image are:

**J_COLOR_SPACE** out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

**J_DITHER_MODE** dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality

Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.
boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int out_color_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used.
but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <-> YCbCr and CMYK <-> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- RGB => BG_YCC
- YCbCr => GRAYSCALE
- YCbCr => BG_YCC
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot “fix” this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.

* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error
handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning
with IJG version 6b, there is also a void pointer "client_data" in each
JPEG object, which the application can also use to find related data.
The library does not touch client_data at all.)

The individual methods that you might wish to override are:

`error_exit (j_common_ptr cinfo)`
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

`output_message (j_common_ptr cinfo)`
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

`format_message (j_common_ptr cinfo, char * buffer)`
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, 
calls output_message. The main reason for overriding this method 
would be to abort on warnings. msg_level is -1 for warnings, 
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG 
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to 
by the field err->jpeg_message_table. The messages are numbered from 0 to 
err->last_jpeg_message, and it is these code numbers that are used in the 
JPEG library code. You could replace the message texts (for instance, with 
messages in French or German) by changing the message table pointer. See 
jerror.h for the default texts. CAUTION: this table will almost certainly 
 change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are 
handled by the same mechanism. The error handler supports a second "add-on" 
message table for this purpose. To define an addon table, set the pointer 
err->addon_message_table and the message numbers err->first_addon_message and 
err->last_addon_message. If you number the addon messages beginning at 1000 
or so, you won't have to worry about conflicts with the library's built-in 
messages. See the sample applications cjpeg/djpeg for an example of using 
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the 
error handler struct, then invoke the error_exit() or emit_message() method. 
The variants of each macro are for varying numbers of additional parameters. 
The additional parameters are inserted into the generated message using 
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers) 
-------------------------------------------

The JPEG compression library sends its compressed data to a "destination 
manager" module. The default destination manager just writes the data to a 
memory buffer or to a stdio stream, but you can provide your own manager to 
do something else. Similarly, the decompression library calls a "source
manager“ to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally ”char“ or ”unsigned char“. On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

```c
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is
returned. A FALSE return should only be used when I/O suspension is
desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.
For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted.

The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.
Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE. The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is
The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of
buffer overrun is placed on skip_input_data’s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It’s much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.
The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg’s.) When scan_info is not NULL, the compression library will store DCT’d data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a
final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

**Buffered-image mode**

------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.
The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above (JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it's best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(): call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library's output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.
Thus, input processing can "get ahead" of the output processing but is not
allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will
wait until that scan starts to arrive before producing any output. (To avoid
an infinite loop, the target scan number is automatically reset to the last
scan number when the end of image is reached. Thus, if you specify a large
target scan number, the library will just absorb the entire input file and
then perform an output pass. This is effectively the same as what
jpeg_start_decompress() does when you don't select buffered-image mode.)
When you pass a target scan number equal to the current input scan number,
the image is displayed no faster than the current input scan arrives. The
final possibility is to pass a target scan number less than the current input
scan number; this disables the input/output interlock and causes the output
processor to simply display whatever it finds in the image buffer, without
waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)
When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.
When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it’s probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn’t let you inspect the next scan’s parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress()
all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.
IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
- enable_external_quant
- enable_2pass_quant

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.
Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (i.e., if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.
A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress()
with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress()
will force all the sent_table fields to FALSE. (This is a safety feature to
prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you
normally would, but instead of calling jpeg_start_compress() and so on, call
jpeg_write_tables(&cinfo). This will write an abbreviated datastream
containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will
be emitted unless their sent_tables flag is already TRUE, and then all the
sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files
is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

---

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if (cinfo.quant_tbl_ptrs[n] == NULL)
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
custom JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

    create JPEG decompression object
    set source to tables-only file
    jpeg_read_header(&cinfo, FALSE);
    set source to abbreviated image file
    jpeg_read_header(&cinfo, TRUE);
    set decompression parameters
    jpeg_start_decompress(&cinfo);
    read data...
    jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)
Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers.
on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending
data source; writing a marker processor that copes with input suspension is
not easy (consider what happens if the marker is longer than your available
input buffer). However, the second method conserves memory since the marker
data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a
decompression object and before calling jpeg_read_header(), because the
markers of interest will typically be near the head of the file and so will
be scanned by jpeg_read_header. Once you've established a marker handling
method, it will be used for the life of that decompression object
(potentially many datastreams), unless you change it. Marker handling is
determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using `jpeg_save_markers`.

Raw (downsampled) image data
-----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same
dimensions.

To compress raw data, you must supply the data in the colorspace to be used
in the JPEG file (please read the earlier section on Special color spaces)
and downsampled to the sampling factors specified in the JPEG parameters.
You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional
arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one
color component. This structure is necessary since the components are of
different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downsampled row must contain a
multiple of block_size valid samples, and there must be a multiple of
block_size sample rows for each component. (For applications such as
conversion of digital TV images, the standard image size is usually a
multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal
compression, except that you call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do
the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().)
  This notifies the library that you will be supplying raw data.
  Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use
  real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace()
call is a good idea. Note that since color conversion is bypassed,
in_color_space is ignored, except that jpeg_set_defaults() uses it to
  choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and
cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the
dimensions of the data you are supplying, it's wise to set them
  explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY.
The scanlines count passed to and returned from jpeg_write_raw_data is
measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say
v_samp_factor*block_size sample rows of each component. The passed num_lines
value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[ \text{cinfo->comp_info[i].width_in_blocks*block_size} \text{ samples per row} \]
\[ \text{cinfo->comp_info[i].height_in_blocks*block_size} \text{ rows in image} \]

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

\[ \text{cinfo->comp_info[0].h_samp_factor} = 2 \text{ for Y} \]
\[ \text{cinfo->comp_info[0].v_samp_factor} = 2 \]
\[ \text{cinfo->comp_info[1].h_samp_factor} = 1 \text{ for Cb} \]
\[ \text{cinfo->comp_info[1].v_samp_factor} = 1 \]
\[ \text{cinfo->comp_info[2].h_samp_factor} = 1 \text{ for Cr} \]
\[ \text{cinfo->comp_info[2].v_samp_factor} = 1 \]

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute
downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downscaled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format.
expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framework might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpegSuppress_tables(), or set the tables’
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don’t get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees are made about how often this call will occur,
so we don’t recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don’t pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library’s inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
made sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_Permanent will work nicely.) You
can use the same callback routine for both compression and decompression.
The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)
-------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high.
Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The “fixed-size” data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options

----------------------
A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application’s image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right!

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
shorts is at least 16 bits wide
ints is at least 16 bits wide
longs is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.
The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color...
map. This requires a 128Kb color lookup table plus strip buffers amounting
to about 40 bytes per column for typical sampling ratios (e.g., about 25600
bytes for a 640-pixel-wide image). You may not be able to process wide
images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model
compiler, such as DJGPP or Watcom C. We highly recommend flat model if you
can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/libjpeg.txt
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

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This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampld image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***
The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
command-line user interface and I/O routines for several uncompressed image
formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG
spec should be readable for decompression. (We can be more restrictive about
what formats we can generate.) Although the system design allows for all
parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore,
we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a
run-time option, because most machines can store 8-bit pixels much more
compactely than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, libtiff uses this
library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since
compression is normally less time-critical. It should be understood that the
low-quality modes may not meet the JPEG standard's accuracy requirements;
nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability
issues that show up at the level of system architecture are:
1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).
In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

**JPEG proper:**
- Entropy decoding (sequential or progressive, Huffman or arithmetic).
- Dequantization, inverse DCT, MCU disassembly.

**Postprocessing:**
- Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
- Optional color quantization (e.g., reduction to 256 colors).
- Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification
Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd
use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data
The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
        |-- Downampling
Main controller --|
    |-- Forward DCT, quantize
        |-- Coefficient controller --|
            |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.
The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.
In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
  |-- Coefficient controller --|
  |   |-- Dequantize, Inverse DCT
  |   |   |-- Upsampling
  |  
Main controller --|
  |   |-- Dequantize
```

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As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in
all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.
*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.
*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.

The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn’t need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that’s wider than the logical picture width.
* Indexing doesn’t require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don’t use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don’t need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.
In general, a specific sample value is accessed by code such as

\[\text{GETJSAMPLE(image}[\text{colorcomponent}][\text{row}][\text{col}])\]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by \( N \) consecutive JSAMPLE values, and an image row is an array of \((\text{# of color components}) \times (\text{image width})\) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

- \text{typedef short JCOEF;} a 16-bit signed integer
- \text{typedef JCOEF JBLOCK}[\text{DCTSIZE2}] an 8x8 block of coefficients
- \text{typedef JBLOCK *JBLOCKROW;} ptr to one horizontal row of 8x8 blocks
- \text{typedef JBLOCKROW *JBLOCKARRAY;} ptr to a list of such rows
- \text{typedef JBLOCKARRAY *JBLOCKIMAGE;} ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of...
On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.
In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library’s memory manager controls allocation and deallocation of memory, and it manages large “virtual” data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in “pools” of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)
Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of objects:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.
We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/structure.txt
No license file was found, but licenses were detected in source scan.
/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMLPLUS library is NOT required to compile this software
  * but it is highly useful as a set of PPM image manipulation programs.
* These routines may need modification for non-Unix environments or
  * specialized applications. As they stand, they assume input from
  * an ordinary stdio stream. They further assume that reading begins
  * at the start of the file; start_input may need work if the
  * user interface has already read some data (e.g., to determine that
  * the file is indeed PPM format).
  */

/* Portions of this code are based on the PBMLPLUS library, which is:
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided “as is” without express or
 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
cjpeg.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
cjpeg [options] inputfile outputfile
*cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
*cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
transupp.c
*
* Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/transupp.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cderror.h

No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdtrans.c

No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications, 
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of 
* JOCTETs into 8-bit-wide elements on external storage. If char is wider 
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdatadst.c
No license file was found, but licenses were detected in source scan.

/
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be 
* stored in extended or expanded memory as well as in regular DOS files.
* 
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined 
* if you compile in a small-data memory model; it should NOT be defined if 
* you use a large-data memory model. This file is not recommended if you 
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than 
* 2-byte boundaries.
* 
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jmemdos.c
No license file was found, but licenses were detected in source scan.

/
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color 
* quantization/reduction steps; specifically, it controls the buffering 
* between upsamle/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module entirely.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back up to the start of the current MCU. To do this, we copy state variables into local working storage, and update them back to the permanent storage only upon successful completion of an MCU.
*/
/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcdctmgr.c
No license file was found, but licenses were detected in source scan.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
  * currently implemented.
  */

/* Portions of this code are based on the PBMPPLUS library, which is:
  **
  ** Copyright (C) 1988 by Jef Poskanzer.
  **
  ** Permission to use, copy, modify, and distribute this software and its
  ** documentation for any purpose and without fee is hereby granted, provided
  ** that the above copyright notice appear in all copies and that both that
  ** copyright notice and this permission notice appear in supporting
  ** documentation. This software is provided "as is" without express or
  ** implied warranty.
  */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
  * jconfig.txt
  *
  * Copyright (C) 1991-1994, Thomas G. Lane.
  * Modified 2009-2013 by Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file documents the configuration options that are required to
  * customize the JPEG software for a particular system.
  *
  * The actual configuration options for a particular installation are stored
  * in jconfig.h. On many machines, jconfig.h can be generated automatically
  * or copied from one of the "canned" jconfig files that we supply. But if
  * you need to generate a jconfig.h file by hand, this file tells you how.
  *
  * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
  * EDIT A COPY NAMED JCONFIG.H.
  */

/*
  * These symbols indicate the properties of your machine or compiler.
  * #define the symbol if yes, #undef it if no.
  */

/* Does your compiler support function prototypes?
  * (If not, you also need to use ansi2knr, see install.txt)
  */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?*/
/* How about "unsigned short"? */

#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc(). */

/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal. */

#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
/*
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
ifndef __RPCNDR_H__/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
ifndef FALSE/* in case these macros already exist */
define FALSE0/* values of boolean */
#endif
ifndef TRUE
#define TRUE1
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifndef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif
/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
   line, rather than using stdout and optionally stdin. You MUST do this if
   your system can't cope with binary I/O to stdin/stdout. See comments at
   head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
   This is crucial under MS-DOS, where the temporary "files" may be areas
   of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen("rb") or fopen("wb").
   This is necessary on systems that distinguish text files from binary files,
   and is harmless on most systems that don't. If you have one of the rare
   systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */
/*
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdct.h
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

/*
 * jdcolor.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-jpeg-9c-master/jdct.h
No license file was found, but licenses were detected in source scan.

/*
 */
*/
*/
*/
"
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.              *
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/
/*
 * This code is loosely based on ppmtogif from the PBMPPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCOD by David Rowley <mgardi@watdscu.waterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 * We are also required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
*/

Found in path(s):
*/opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
 *
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
 *
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/
/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
* FSpDelete    ->  HDelete
* FSpGetFInfo  ->  HGetFInfo
* FSpCreate    ->  HCreate
* FSpOpenDF    ->  HOpen    *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 *  * pool-based allocation and freeing of memory;
 *  * policy decisions about how to divide available memory among the
 *    virtual arrays;
 *  * control logic for swapping virtual arrays between main memory and
 *    backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to read input images in Targa format.
 * 
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdin stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdtarga.c
No license file was found, but licenses were detected in source scan.

*/
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cdjpeg.h
No license file was found, but licenses were detected in source scan.

*/
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrtarga.c
No license file was found, but licenses were detected in source scan.

*/
* wrjpcom.c
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

IJJ JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djjpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
=================
 Include files:

jpeglib.hJPEG library's exported data and function declarations.
jconfig.hConfiguration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.hAdditional configuration declarations; need not be changed
for a standard installation.
jerror.hDeclares JPEG library's error and trace message codes.
jinclude.hCentral include file used by all IJG .c files to reference
system include files.
jpegin.hJPEG library's internal data structures.
jdct.hPrivate declarations for forward & reverse DCT subsystems.
jmemsys.hPrivate declarations for memory management subsystem.
jversion.h

Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapimin.c - Application program interface: core routines for compression.
jcapistd.c - Application program interface: standard compression.
jdapimin.c - Application program interface: core routines for decompression.
jdapistd.c - Application program interface: standard decompression.
jcomapi.c - Application program interface routines common to compression and decompression.
jtparam.c - Compression parameter setting helper routines.
jctrans.c - API and library routines for transcoding compression.
jdtrans.c - API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c - Initialization: determines which other modules to use.
jcmaster.c - Master control: setup and inter-pass sequencing logic.
jcmainct.c - Main buffer controller (preprocessor => JPEG compressor).
jcprect.c - Preprocessor buffer controller.
jccoefct.c - Buffer controller for DCT coefficient buffer.
jccolor.c - Color space conversion.
jcsample.c - Downsampling.
jdctmgr.c - DCT manager (DCT implementation selection & control).
jdfctint.c - Forward DCT using slow-but-accurate integer method.
jdfctfst.c - Forward DCT using faster, less accurate integer method.
jdfcflt.c - Forward DCT using floating-point arithmetic.
jchuff.c - Huffman entropy coding.
jcarith.c - Arithmetic entropy coding.
jcmarker.c - JPEG marker writing.
jdatadst.c - Data destination managers for memory and stdout output.

Decompression side of the library:

jdmaster.c - Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoeftct.c Buffer controller for DCT coefficient buffer.
jdpsectct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jadarith.c Arithmetic entropy decoding.
jdctmgrct.c IDCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c Standard error handling routines (application replaceable).
jmemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jemdosa.asm80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.
CJPEGL/DJPEG/JPEGTRAN

====================================

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cerror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdocmap.c Code to read a colormap file for djpeg's "-map" switch.
rdsenew.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rddpm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrpmm.c PPM/PGM file output.
wrdrle.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPCCOM/WRJPCCOM

==============

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

**ADDITIONAL FILES**

Documentation (see README for a guide to the documentation files):

- README: Master documentation file.
- *.txt: Other documentation files.
- *.1: Documentation in Unix man page format.
- example.c: Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

- configure: Unix shell script to perform automatic configuration.
- configure.ac: Source file for use with Autoconf to generate configure.
- ltmain.sh: Support scripts for configure (from GNU libtool).
- config.guess
- config.sub
- depcomp
- missing
- ar-lib
- compile
- install-sh: Install shell script for those Unix systems lacking one.
- Makefile.in: Makefile input for configure.
- Makefile.am: Source file for use with Automake to generate Makefile.in.
- ckconfig.c: Program to generate jconfig.h on non-Unix systems.
- jconfig.txt: Template for making jconfig.h by hand.
- mak*: Sample makefiles for particular systems.
- jconfig.*: Sample jconfig.h for particular systems.
- libjpeg.map: Script to generate shared library with versioned symbols.
- libjpeg.pc.in: libjpeg.pc pkg-config file input for configure.
- aclocal.m4: M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

- test*: Source and comparison files for confidence test.
  These are binary image files, NOT text files.

Found in path(s):

- * /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/filelist.txt

No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 */
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
*
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/
* jdmerge.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \cdot Cr \]
* \[ G = Y + K2 \cdot Cb + K3 \cdot Cr \]
* \[ B = Y + K4 \cdot Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCC -> RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmerge.c
No license file was found, but licenses were detected in source scan.

/ *
* jdarith.c
* *
* Developed 1997-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains portable arithmetic entropy decoding routines for JPEG
* *
* Both sequential and progressive modes are supported in this single module.
* *
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdarith.c
No license file was found, but licenses were detected in source scan.
The Independent JPEG Group's JPEG software
==============================================

README for release 9c of 14-Jan-2018
======================================

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.
Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjjcom" and "wrjjcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.
LEGAL ISSUES
================

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
============

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/ WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iwg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.
ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT
algorithm article, only to find out that I had come to the same result
in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the
ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the
Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the
ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16)
meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to
fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther
Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel
for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team
at the Digital Images company in Halle for providing me with extra
equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.
Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.
The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet.
People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.
IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/README
No license file was found, but licenses were detected in source scan.

/*
* jdapimin.c

* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdapimin.c

No license file was found, but licenses were detected in source scan.

/ *
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemsys.h

No license file was found, but licenses were detected in source scan.

/ *
* jfdctint.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* 
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* 
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* 
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* 
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*/ 
* rdrle.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdin stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdrlc.c
No license file was found, but licenses were detected in source scan.

/*
  * rdrswitch.c
  *
  * Copyright (C) 1991-1996, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to process some of cjpeg's more complicated
  * command-line switches. Switches processed here are:
  * -qtables file Read quantization tables from text file
  * -scans file Read scan script from text file
  * -quality N,[N,...] Set quality ratings
  * -qslots N,[N,...] Set component quantization table selectors
  * -sample HxV,[HxV,...] Set component sampling factors
  */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
  * djpeg.c
  *
  * Copyright (C) 1991-1997, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains a command-line user interface for the JPEG decompressor.
It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the
compile-time switch TWO_FILE_COMMANDLINE:

djpeg [options] inputfile outputfile

djpeg [options] [inputfile]

In the second style, output is always to standard output, which you'd
normally redirect to a file or pipe to some other program. Input is
either from a named file or from standard input (typically redirected).
The second style is convenient on Unix but is unhelpful on systems that
don't support pipes. Also, you MUST use the first style if your system
doesn't do binary I/O to stdin/stdout.

To simplify script writing, the "-outfile" switch is provided. The syntax

djpeg [options] -outfile outputfile inputfile

works regardless of which command line style is used.

Found in path(s):
/opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/djpeg.c

No license file was found, but licenses were detected in source scan.

/jpeglib.h

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file defines the application interface for the JPEG library.
Most applications using the library need only include this file,
and perhaps jerror.h if they want to know the exact error codes.

Found in path(s):
/opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jpeglib.h

No license file was found, but licenses were detected in source scan.

/jmorecfg.h

Copyright (C) 1991-1997, Thomas G. Lane.
Modified 1997-2013 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
* Developed 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains portable arithmetic entropy encoding routines for JPEG
 *
* Both sequential and progressive modes are supported in this single module.
 *
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrrle.c

No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
 * jmemansi.c
Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

This file provides a simple generic implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that you have the ANSI-standard library routine tmpfile().

Also, the problem of determining the amount of memory available is shoved onto the user.

*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemansi.c

No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcomapi.c

No license file was found, but licenses were detected in source scan.

/*
 * jmennobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything, but you'd better have lots of main memory (or virtual memory) if you want to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */
Open Source Used In Tetration 3.5.1 21279

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/ *
* jtrans.c
* *
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
* */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jtrans.c
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IJG JPEG LIBRARY: CODING RULES

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/ *
* Block comments in this style.
*/

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool `ansi2knr.c` (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifndef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

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* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/coderules.txt
No license file was found, but licenses were detected in source scan.
Open Source Used In Tetration 3.5.1  21282

/*
* jcparam.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains software version identification.
*/
Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jversion.h
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is
 *
 * The downsampling algorithm used here is a simple average of the source
 * pixels covered by the output pixel. The hi-falutin sampling literature
 * refers to this as a "box filter". In general the characteristics of a box
 * filter are not very good, but for the specific cases we normally use (1:1
 * and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
 * nearly so bad. If you intend to use other sampling ratios, you'd be well
 * advised to improve this code.
 *
 * A simple input-smoothing capability is provided. This is mainly intended
 * for cleaning up color-dithered GIF input files (if you find it inadequate,
 * we suggest using an external filtering program such as pnmconvol). When
 * enabled, each input pixel P is replaced by a weighted sum of itself and its
 * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF.
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jquant2.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jquant2.c
No license file was found, but licenses were detected in source scan.

/ *
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcapimin.c
No license file was found, but licenses were detected in source scan.

/ *
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
* /

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdinput.c

No license file was found, but licenses were detected in source scan.

/*
 * rdjpcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbieding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 * /

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdjpcom.c

No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbieding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 * 
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/transupp.h
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/*
 * rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
***************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,
* the ability to read GIF files has been removed from the IJG distribution.
* Sorry about that.
***************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdgif.c
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/*
 * wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
*/
1.2137 bind 9.11.4-26.P2.el7_9.3

1.2137.1 Available under license:

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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-----------------------------------------------------------------------------
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===========================================================================

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
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- Local variables:
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- End:

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If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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1.2141 dhcp 4.2.5-82.el7.centos

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df3598d787c5c5ff2bb56.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<1.-
-
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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
<xsl:param name="text"/>
<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', '')">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text" select="$rest"/>
</xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
<xsl:text>
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</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text" select="$isc.copyright.text"/>
</xsl:call-template>
</xsl:variable>
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1.2143 lombok 1.16.12

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1.2146 kerberos 1.15.1 34.el7
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cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
```
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
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lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.2153 yum 3.4.3 161.el7.centos

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue  # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """Return all notices."
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
            name = oldpkgtup[0]
            arch = oldpkgtup[1]
            ret = []
+            other_arch_list = []
+            notices = set()
            for notice in self.get_notices(name):
                for upkg in notice['pkglist']:
                    for pkg in upkg['packages']:
                        other_arch = False
                        if pkg['name'] != name or pkg['arch'] != arch:
                            continue
                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                            other_arch = True
                        else:
                            continue
                        pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                                  pkg['version'], pkg['release'])
                        if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                            continue
                        -                        ret.append((pkgtup, notice))
                        +                        if other_arch:
                        +                            other_arch_list.append((pkgtup, notice))
                        +                        else:
                        +                            ret.append((pkgtup, notice))
                        +                            notices.add(notice)
                        +                        for pkgtup, notice in other_arch_list:
+    if notice not in notices:
+        ret.append((pkgtup, notice))
+        ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
+    return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
    A single update notice (for instance, a security fix).
    
    - def __init__(self, elem=None):
    + def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from': '',
            'type': '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
            if elem:
                self._parse(elem)

+    self._repoid = repoid
+    self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """ Allows scriptable metadata access (ie: un['update_id']). """
+        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
            # Tests to see if it's "the same data", which means that the
            # packages can be different (see add_notice).
+
+    def _rid(un):
+        if hasattr(un, '_repoid') and un._repoid is not None:
+            return un._repoid
+        else:
+            return '<unknown>'
msg += _('If you are the owner, consider re-running the same command with --verbose to see the ')
have_dup = True
if self._vlogger:
    self._vlogger.warn("%s", msg)

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Version 2, June 1991

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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The Artistic License

Preamble
The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
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d) make other distribution arrangements with the Copyright Holder.

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b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End
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Preamble

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.2163 icu 50.1.2 15.el7

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### BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

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## Commands to generate dependency files

GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN_DEPS.c\) $< \n | sed \"s/(\*$\)/\1.o : /g\" > $@; \n [ -s $@ ] || rm -f $@’
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN_DEPS.cc\) $< \n | sed \"s/(\*$\)/\1.o : /g\" > $@; \n [ -s $@ ] || rm -f $@’

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
## End FreeBSD-specific setup

### 1.2164 rsyslog 7.4.4-1ubuntu2.7

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Project Initiator and Maintainer

Bartosz Kuzma

- provided many contributions before I started this list, so there are probably some missing
- suggested the use of autotools in parallel to Peter Vrabec and helped me get it going
- sent a number of patches (see cvs log for details)

Michel Samia

- provided patch with regex functionality for filters on 2007-07-14, first seen in 1.16.1

mildew@gmail.com

- provided a large patch to enhance $AllowedSender directive for IPv6 as well as DNS names

Peter Vrabec

- provided many contributions before I started this list, so there are probably some missing
- provided basic IPv6 support
- convinced me to use autotools and provided the first working config for it
- provided Rainer with ongoing support, inspiration and motivation

varmojfekok@gmail.com

- provided contributions before I started this list, so there are probably some missing
- provided patches for several memory leaks

Last Updated: 2007-07-19

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1.2172 libexporter-lite-perl 0.02-2

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Found in path(s):
*/opt/cola/permits/1138400773_1614282189.06/0/libexporter-lite-perl-0-02-orig-1-tar-gz/Exporter-Lite-0.02/META.yml

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=head1 NAME

Exporter::Lite - Lightweight exporting of variables

=head1 SYNOPSIS

package Foo;
use Exporter::Lite;

# Just like Exporter.
@EXPORT = qw($This That);
@EXPORT_OK = qw(@Left %Right);

# Meanwhile, in another piece of code!
package Bar;
use Foo; # exports $This and &That.

=head1 DESCRIPTION
This is an alternative to Exporter intended to provide a lightweight subset of its functionality. It supports \texttt{C<import()>, C<@EXPORT> and C<@EXPORT_OK>} and not a whole lot else.

Unlike Exporter, it is not necessary to inherit from Exporter::Lite (ie. no \texttt{C<@ISA = qw(Exporter::Lite)> mantra}). Exporter::Lite simply exports its import() function. This might be called a "mix-in".

Setting up a module to export its variables and functions is simple:

```perl
package My::Module;
use Exporter::Lite;

@EXPORT = qw($Foo bar);
```

now when you \texttt{C<use My::Module>}, \texttt{C<$Foo>} and \texttt{C<bar()>} will show up.

In order to make exporting optional, use \texttt{@EXPORT_OK}.

```perl
package My::Module;
use Exporter::Lite;

@EXPORT_OK = qw($Foo bar);
```

when \texttt{My::Module} is used, \texttt{C<$Foo>} and \texttt{C<bar()>} will \texttt{I<not>} show up.
You have to ask for them. \texttt{C<use My::Module qw($Foo bar)>>}.

=head1 Methods

Export::Lite has one public method, import(), which is called automatically when your modules is use()’d.

In normal usage you don’t have to worry about this at all.

=over 4

=item B<import>

Some::Module->import;
Some::Module->import(@symbols);

Works just like \texttt{C<Exporter::import()> excepting it only honors @Some::Module::EXPORT and @Some::Module::EXPORT_OK}.

The given @symbols are exported to the current package provided they are in @Some::Module::EXPORT or @Some::Module::EXPORT_OK. Otherwise an exception is thrown (ie. the program dies).
If @symbols is not given, everything in @Some::Module::EXPORT is exported.

=back

=head1 DIAGNOSTICS

=over 4

=item ""%s" is not exported by the %s module'

Attempted to import a symbol which is not in @EXPORT or @EXPORT_OK.

=item 'Can't export symbol: %s'

Attempted to import a symbol of an unknown type (ie. the leading $@% salad wasn't recognized).

=back

=head1 BUGS and CAVEATS

It's not yet clear if this is actually any lighter or faster than Exporter. I know its at least on par.

OTOH, the docs are much clearer and not having to say C<$@ISA = qw(Exporter)> is kinda nice.

=head1 AUTHORS

Michael G Schwern <schwern@pobox.com>

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=head1 SEE ALSO

L<Exporter>, L<Exporter::Simple>, L<UNIVERSAL::exports>

=cut

Found in path(s):
* /opt/cola/permits/1138400773_1614282189.06/0/libexporter-lite-perl-0-02-orig-1-tar-gz/Exporter-Lite-
1.2173 readline 6.0 4.el6

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1.2178 gperftools 2.6.1 1.el7

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basecvt.pod
gcd.pod
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
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Bharat Mediratta <bharat@menalto.com>
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Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
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Vlad Losev <vladl@gmail.com>
Zhanyong Wan <wan@google.com>
1.2180.1 Available under license:

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1.2181 liblocale-gettext-perl 1.05-8+b1

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Maintainer: Phillip Vandry <vandry@TZoNE.ORG>
Source: http://search.cpan.org/dist/Locale-gettext/
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1.2182 libtext-iconv-perl 1.7-5build2

1.2183 jetty-http 9.3.24.v20180605

1.2184 python 2.7.5 48.el7
1.2184.1 Available under license :

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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* M. Welsh, 6 July 1996

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*/

1.2194 jetty-security 9.2.15.v20160210

1.2195 kmod 20 9.el7
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configure_requires:
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  - inc
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1.2197 python-defaults 3.4.0 0ubuntu2
1.2197.1 Available under license:
This is the Debian GNU/Linux prepackaged version of the Python programming
language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
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Current maintainer is Matthias Klose <doko@debian.org> until the final
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*******************************************************************************

A. HISTORY OF THE SOFTWARE
******************************

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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<one line to give the library's name and a brief idea of what it does.>  
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1.2200 lz4-java 1.7.0

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/lz4/LZ4FastDecompressor.java
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* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/xxhash/StreamingXXHash64JNI.java
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/lz4/LZ4CompressorWithLength.java
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* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/lz4/LZ4Utils.java
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/xxhash/StreamingXXHash32JNI.java
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/xxhash/XXHash64.java
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/lz4/LZ4Compressor.java
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/lz4/LZ4CompressorWithLength.java
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/lz4/LZ4Utils.java
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1.2201 openssl 1.0.2k-16.el7
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1.2202 bzip2 1.0.7

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1.2203 libaio 0.3.109-4

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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
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GIMP Palette
Name: custompalette
Columns: 4
#
  0  0  0   Index 3
  65 38  30  Index 4
 103 62  49  Index 6
  79 73  72  Index 7
 114 101  97  Index 8
 208 127 100  Index 9
 151 144 142  Index 10
 221 207 199  Index 11

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GIMP Palette
Name: badpalettefile
Columns: 4
#
 0 0 0  Index 3
0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
34567890123456789
103 62  49  Index 6
 79  73  72  Index 7
114 101  97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

GIMP Palette
Name: Test
Columns: 0
#

GIMP Palette
Name: badpaletteentry
Columns: 4
#
 0 0 0  Index 3
  65  38
103 62  49  Index 6
 79  73  72  Index 7
114 101  97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.2210 jline-remote-ssh 3.9.0

1.2211 gnutls 2.12.23-12ubuntu2.8

1.2211.1 Available under license:

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Version 2.1, February 1999

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(This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.)

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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@subheading Preamble

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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author's reputation will not be affected by problems that might be introduced by others.

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2. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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4. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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@item
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@enumerate a
@item
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@item
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@item
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@item
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@item
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@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page
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@end example

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@example

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Ty Coon, President of Vice
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Version 3, 29 June 2007

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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
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package cmd

func initApache2() {
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Name: "Apache 2.0",
PossibleMatches: ["apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"],
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Name: t1utils
Version: 1.37
Release: 1
Source: http://www.lcdf.org/type/t1utils-1.37.tar.gz

URL: http://www.lcdf.org/type/

Group: Utilities/Printing
Vendor: Little Cambridgeport Design Factory
Packager: Eddie Kohler <ekohler@gmail.com>
License: freely modifiable and distributable
BuildRoot: /tmp/t1utils-build

%description
The t1utils package is a set of programs for manipulating PostScript Type 1 fonts. It contains programs to change between binary PFB format (for storage), ASCII PFA format (for printing), a human-readable and -editable ASCII format, and Macintosh resource forks.

%prep
%setup

%build
%configure
make

%install
[ "$RPM_BUILD_ROOT" != "/" ] && [ -d $RPM_BUILD_ROOT ] && rm -rf $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT
make DESTDIR=$RPM_BUILD_ROOT install

%clean
[ "$RPM_BUILD_ROOT" != "/" ] && [ -d $RPM_BUILD_ROOT ] && rm -rf $RPM_BUILD_ROOT

%files
%attr(-,root,root) %doc NEWS README
%attr(0755,root,root) %(_bindir)/t1ascii
%attr(0755,root,root) %(_bindir)/t1binary
%attr(0755,root,root) %(_bindir)/t1asm
%attr(0755,root,root) %(_bindir)/t1disasm
%attr(0755,root,root) %(_bindir)/t1unmac
%attr(0755,root,root) %(_bindir)/t1mac
%attr(0644,root,root) %(_mandir)/man1/t1ascii.1*
%attr(0644,root,root) %(_mandir)/man1/t1binary.1*
%attr(0644,root,root) %(_mandir)/man1/t1asm.1*
%attr(0644,root,root) %{_mandir}/man1/t1disasm.1*
%attr(0644,root,root) %{_mandir}/man1/t1unmac.1*
%attr(0644,root,root) %{_mandir}/man1/t1mac.1*

Found in path(s):
* /opt/cola/permits/1138424831_1614282744.65/0/t1utils-1-37-orig-1-tar-gz/t1utils-1.37/t1utils.spec
No license file was found, but licenses were detected in source scan.

/* t1lib

* This file contains functions for reading PFA and PFB files.
*
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*
*/

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/* clp.h - Public interface to CLP.

* This file is part of CLP, the command line parser package.
*
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Found in path(s):
* /opt/cola/permits/1138424831_1614282744.65/0/t1utils-1-37-orig-1-tar-gz/t1utils-1.37/include/lcdf/clp.h
No license file was found, but licenses were detected in source scan.

/* clp.c - Complete source code for CLP.
* This file is part of CLP, the command line parser package.
*
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No license file was found, but licenses were detected in source scan.

/* t1asm-*- c-basic-offset: 2 -*-
 *
 * This program `assembles' Adobe Type-1 font programs in pseudo-PostScript
 * form into either PFB or PFA format. The human readable/editable input is
 * charstring- and eexec-encrypted as specified in the `Adobe Type 1 Font
 * Format' version 1.1 (the `black book'). There is a companion program,
 * t1disasm, which `disassembles' PFB and PFA files into a pseudo-PostScript
 * file.
 *
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 *
 * I. Lee Hetherington (ilh@lcs.mit.edu)
 *
 * 1.5 and later versions contain changes by, and are maintained by,
 * Eddie Kohler <ekohler@gmail.com>.
 *
 * New change log in `NEWS'. Old change log:
 *
 * Revision 1.4 92/07/10 10:53:09 ilh
 * Added support for additional PostScript after the closefile command
 * (ie., some fonts have \{restore\}if after the cleartomark).
 *
 * Revision 1.3 92/06/23 10:58:25 ilh
 * MSDOS porting by Kai-Uwe Herbing (herbing@netmbx.netmbx.de)
 * incorporated.
 *
 * Revision 1.2 92/05/22 11:54:45 ilh
 * Fixed bug where integers larger than 32000 could not be encoded in
* charstrings. Now integer range is correct for four-byte
twos-complement integers: -(1<<31) <= i <= (1<<31)-1. Bug detected by
* Piet Tutelaers (rcpt@urc.tue.nl).
*
* Revision 1.1 92/05/22 11:48:46 ilh
* initial version
*
* Ported to Microsoft C/C++ Compiler and MS-DOS operating system by
* Kai-Uwe Herbing (herbing@netmbx.netmbx.de) on June 12, 1992. Code
* specific to the MS-DOS version is encapsulated with #ifdef _MSDOS
* ... #endif, where _MSDOS is an identifier, which is automatically
* defined, if you compile with the Microsoft C/C++ Compiler.
*
* /

Found in path(s):
* /opt/cola/permits/1138424831_1614282744.65/0/t1utils-1-37-orig-1-tar-gz/t1utils-1.37/t1asm.c
No license file was found, but licenses were detected in source scan.

T1UTILS VERSION 1.37 NOTES
============================

You need an ANSI C compiler, such as gcc.

Just type `./configure', then `make'. `make install' will build and
install the utilities and their manual pages.

`./configure' accepts the usual options. See `INSTALL' for more
details. The most commonly used option is `--prefix', which can be used
to install the utilities in a place other than /usr/local.

Changes since version 1.2 (c) 1998-2008 Eddie Kohler, under the same
redistribution copyright as I. Lee Hetherington's. See below for I. Lee
Hetherington's original README from 1992, updated slightly for today's
t1utils.

Eddie Kohler
ekohler@gmail.com

###############################################################

t1utils is a collection of simple type-1 font manipulation programs.
Together, they allow you to convert between PFA (ASCII) and PFB (binary)
formats, disassemble PFA or PFB files into human-readable form, reassemble
them into PFA or PFB format. Additionally you can extract font resources
from a Macintosh font file (ATM/Laserwriter), or create a Macintosh Type 1
font file from a PFA or PFB font.
There are currently six programs:

t1ascii converts PFB files to PFA format.

t1binary converts PFA files to PFB format.

t1disasm disassembles a type-1 font (PFA or PFB format) into a raw, human-readable text form for subsequent hand editing, tweaking, hint fixing, etc...

t1asm assembles type-1 font into PFA or PFB format from human-readable form produced by t1disasm.

t1unmac extracts POST resources from a Macintosh type-1 file (ATM/Laserwriter) into PFA or PFB format for use outside the Macintosh environment. The Macintosh file should be stored in MacBinary, AppleSingle, AppleDouble, or BinHex format, or as a raw resource fork. Note that t1unmac does not have to run on a Macintosh, but makes Macintosh type-1 fonts available to Unix machines and PCs.

t1mac creates a Macintosh Type 1 file from a PFA or PFB-format Type 1 font. Writes the Macintosh file in MacBinary, AppleSingle, AppleDouble, or BinHex format, or as a raw resource fork. WARNING: This will not suffice to use the new font on a Macintosh, as Macintoshes cannot read raw Type 1 fonts. You will need to create a font suitcase containing bitmap fonts if you do not have such a suitcase for the font already. T1utils cannot help you do this.

...

Thanks to Kai-Uwe Herbing (herbing@netmbx.netmbx.de) for the MS-DOS port (Microsoft C/C++ compiler).

The copyright on all of the tools in t1utils looks like:

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Note that these tools should not be used to illegally copy type-1 font programs. Typeface design is an intricate art that should be rewarded.
Found in path(s):
* /opt/cola/permits/1138424831_1614282744.65/0/t1utils-1-37-orig-1-tar-gz/t1utils-1.37/README
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/* t1ascii
 *
* This program takes an Adobe Type-1 font program in binary (PFB) format and
* converts it to ASCII (PFA) format.
*
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* Eddie Kohler <ekohler@gmail.com>.
*
* New change log in `NEWS'. Old change log:
*
* Revision 1.2 92/06/23 10:58:43 ilh
* MSDOS porting by Kai-Uwe Herbing (herbing@netmbx.netmbx.de)
* incorporated.
*
* Revision 1.1 92/05/22 11:47:24 ilh
* initial version
*
* Ported to Microsoft C/C++ Compiler and MS-DOS operating system by
* Kai-Uwe Herbing (herbing@netmbx.netmbx.de) on June 12, 1992. Code
* specific to the MS-DOS version is encapsulated with #ifdef _MSDOS
* ... #endif, where _MSDOS is an identifier, which is automatically
* defined, if you compile with the Microsoft C/C++ Compiler.
*
*/

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/* t1binary
*
This program takes an Adobe Type-1 font program in ASCII (PFA) format and converts it to binary (PFB) format.

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I. Lee Hetherington (ilh@lcs.mit.edu)

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Revision 1.2 92/06/23 10:58:08 ilh
MSDOS porting by Kai-Uwe Herbing (herbing@netmbx.netmbx.de)
incorporated.

Revision 1.1 92/05/22 11:58:17 ilh
initial version

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... #endif, where _MSDOS is an identifier, which is automatically defined, if you compile with the Microsoft C/C++ Compiler.

New license file was found, but licenses were detected in source scan.

This program `disassembles' Adobe Type-1 font programs in either PFB or PFA format. It produces a human readable/editable pseudo-PostScript file by performing exec and charstring decryption as specified in the `Adobe Type 1 Font Format' version 1.1 (the 'black book'). There is a companion program, t1asm, which `assembles' such a pseudo-PostScript file into either PFB or PFA format.

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* intact.

* I. Lee Hetherington (ilh@lcs.mit.edu)

* 1.5 and later versions contain changes by, and are maintained by,
* Eddie Kohler <ekohler@gmail.com>.

* New change log in `NEWS'. Old change log:

* Revision 1.4 92/07/10 10:55:08 ilh
* Added support for additional PostScript after the closefile command
* (ie., some fonts have {restore}if' after the cleartomark). Also,
* removed hardwired charstring start command (-| or RD) in favor of
* automatically determining it.

* Revision 1.3 92/06/23 10:57:53 ilh
* MSDOS porting by Kai-Uwe Herbing (herbing@netmbx.netmbx.de)
* incorparated.

* Revision 1.2 92/05/22 12:05:33 ilh
* Fixed bug where we were counting on sprintf to return its first
* argument---not true in ANSI C. This bug was detected by Piet
* Tutelaers (rcpt@urc.tue.nl). Also, fixed (signed) integer overflow
* error when testing high-order bit of integer for possible
* sign-extension by making comparison between unsigned integers.

* Revision 1.1 92/05/22 12:04:07 ilh
* initial version

* Ported to Microsoft C/C++ Compiler and MS-DOS operating system by
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* ... #endif, where _MSDOS is an identifier, which is automatically
* defined, if you compile with the Microsoft C/C++ Compiler.

*/

Found in path(s):
*/opt/cola/permits/1138424831_1614282744.65/0/t1utils-1-37-orig-1-tar-gz/t1utils-1.37/t1disasm.c

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/*/ t1mac

* This program converts Type 1 fonts in PFA or PFB format into Macintosh Type
* 1 fonts stored in MacBinary (I or II), AppleSingle, AppleDouble, BinHex, or
* raw resource fork format.

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Found in path(s):
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/* t1unmac/unpost
 *
* This program converts Macintosh Type 1 fonts stored in MacBinary (I or II),
* AppleSingle, AppleDouble, BinHex, or raw resource fork format to PFA and
* PFB formats.
*
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*
* New change log in `NEWS'. Old change log:
*
* Revision 1.2 92/06/23 10:57:33 ilh
* MSDOS porting by Kai-Uwe Herbing (herbing@netmbx.netmbx.de)
* incorporated.
*
* Revision 1.1 92/05/22 12:07:49 ilh
* initial version
*
* Ported to Microsoft C/C++ Compiler and MS-DOS operating system by
* Kai-Uwe Herbing (herbing@netmbx.netmbx.de) on June 12, 1992. Code
* specific to the MS-DOS version is encapsulated with #ifdef _MSDOS
* ... #endif, where _MSDOS is an identifier, which is automatically
* defined, if you compile with the Microsoft C/C++ Compiler.
* */

Found in path(s):
* /opt/cola/permits/1138424831_1614282744.65/0/t1utils-1-37-orig-1-tar-gz/t1utils-1.37/t1unmac.c
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This package is maintained by Michael Stone <mstone@debian.org> and built from sources obtained from:


This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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BIRT Runtime

What is it?
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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

Running the BIRT Engine in Console
----------------------------------
In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
   xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by .\xxx.rptdesign

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  jar/jersey/repackaged/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/net/HostAndPort.java
jar/jersey/repackaged/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Present.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Ticker.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedExecutionException.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
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*/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-

jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4- jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4- jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
*/

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.java

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  jar/jersey/repackaged/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/base/MoreObjects.java

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/*
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/*
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  jar/jersey/repackaged/com/google/common/cache/Weigher.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/ByteSink.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/BinaryTreeTraverser.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/Element.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/package-info.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeRangeMap.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collected/evictedqueue.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/FileWriteMode.java
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@end enumerate

@end example

@end heading

@heading END OF TERMS AND CONDITIONS

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

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@end example
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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ``about box''.

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1.2264 libhtml-form-perl 6.03-1

1.2264.1 Available under license :

No license file was found, but licenses were detected in source scan.

=back

=head1 SEE ALSO

L<LWP>, L<LWP::UserAgent>, L<HTML::Parser>

=head1 COPYRIGHT
NAME
  HTML::Form - Class that represents an HTML form element

SYNOPSIS
  use HTML::Form;
  $form = HTML::Form->parse($html, $base_uri);
  $form->value(query => "Perl");

  use LWP::UserAgent;
  $ua = LWP::UserAgent->new;
  $response = $ua->request($form->click);

DESCRIPTION
  Objects of the `HTML::Form' class represents a single HTML `<form> ...
  </form>' instance. A form consists of a sequence of inputs that usually
  have names, and which can take on various values. The state of a form
  can be tweaked and it can then be asked to provide `HTTP::Request'
  objects that can be passed to the request() method of `LWP::UserAgent'.

  The following methods are available:

  @forms = HTML::Form->parse( $html_document, $base_uri )
  @forms = HTML::Form->parse( $html_document, base => $base_uri, %opt )
  @forms = HTML::Form->parse( $response, %opt )

  The parse() class method will parse an HTML document and build up
  `HTML::Form' objects for each `<form>' element found. If called in
  scalar context only returns the first `<form>'. Returns an empty list
  if there are no forms to be found.

  The required arguments is the HTML document to parse
  ($html_document) and the URI used to retrieve the document
  ($base_uri). The base URI is needed to resolve relative action URIs.
  The provided HTML document should be a Unicode string (or US-ASCII).

  By default HTML::Form assumes that the original document was UTF-8
  encoded and thus encode forms that don't specify an explicit
*accept-charset* as UTF-8. The charset assumed can be overridden by providing the `charset` option to parse(). It's a good idea to be explicit about this parameter as well, thus the recommended simplest invocation becomes:

```perl
my @forms = HTML::Form->parse(
    Encode::decode($encoding, $html_document_bytes),
    base => $base_uri,
    charset => $encoding,
);
```

If the document was retrieved with LWP then the response object provide methods to obtain a proper value for `base` and `charset`:

```perl
my $ua = LWP::UserAgent->new;
my $response = $ua->get("http://www.example.com/form.html");
my @forms = HTML::Form->parse($response->decoded_content,
    base => $response->base,
    charset => $response->content_charset,
);
```

In fact, the parse() method can parse from an `HTTP::Response` object directly, so the example above can be more conveniently written as:

```perl
my $ua = LWP::UserAgent->new;
my $response = $ua->get("http://www.example.com/form.html");
my @forms = HTML::Form->parse($response);
```

Note that any object that implements a decoded_content(), base() and content_charset() method with similar behaviour as `HTTP::Response` will do.

Additional options might be passed in to control how the parse method behaves. The following are all the options currently recognized:

`base => $uri`
This is the URI used to retrieve the original document. This option is not optional ;-) 

`charset => $str`
Specify what charset the original document was encoded in. This is used as the default for accept_charset. If not provided this defaults to "UTF-8".

`verbose => $bool`
Warn (print messages to STDERR) about any bad HTML form
constructs found. You can trap these with $SIG{__WARN__}.

`strict => $bool'
Initialize any form objects with the given strict attribute.

$method = $form->method
$form->method( $new_method )
This method is gets/sets the *method* name used for the
`HTTP::Request' generated. It is a string like "GET" or "POST".

$action = $form->action
$form->action( $new_action )
This method gets/sets the URI which we want to apply the request
*method* to.

$enctype = $form->enctype
$form->enctype( $new_enctype )
This method gets/sets the encoding type for the form data. It is a
string like "application/x-www-form-urlencoded" or
"multipart/form-data".

$accept = $form->accept_charset
$form->accept_charset( $new_accept )
This method gets/sets the list of charset encodings that the server
processing the form accepts. Current implementation supports only
one-element lists. Default value is "UNKNOWN" which we interpret as
a request to use document charset as specified by the 'charset'
parameter of the parse() method.

$value = $form->attr( $name )
$form->attr( $name, $new_value )
This method give access to the original HTML attributes of the
<form> tag. The $name should always be passed in lower case.

Example:

```perl
@f = HTML::Form->parse( $html, $foo );
@f = grep $_->attr("id") eq "foo", @f;
die "No form named 'foo' found" unless @f;
$foo = shift @f;
```

$bool = $form->strict
$form->strict( $bool )
Gets/sets the strict attribute of a form. If the strict is turned on
the methods that change values of the form will croak if you try to
set illegal values or modify readonly fields. The default is not to
be strict.
@inputs = $form->inputs
This method returns the list of inputs in the form. If called in
scalar context it returns the number of inputs contained in the
form. See INPUTS for what methods are available for the input
objects returned.

$input = $form->find_input( $selector )
$input = $form->find_input( $selector, $type )
$input = $form->find_input( $selector, $type, $index )
This method is used to locate specific inputs within the form. All
inputs that match the arguments given are returned. In scalar
context only the first is returned, or 'undef' if none match.

If $selector is specified, then the input's name, id, class
attribute must match. A selector prefixed with '#' must match the id
attribute of the input. A selector prefixed with '.', matches the
class attribute. A selector prefixed with '^' or with no prefix
matches the name attribute.

If $type is specified, then the input must have the specified type.
The following type names are used: "text", "password", "hidden",
"textarea", "file", "image", "submit", "radio", "checkbox" and
"option".

The $index is the sequence number of the input matched where 1 is
the first. If combined with $name and/or $type then it select the
*n*th input with the given name and/or type.

$value = $form->value( $selector )
$form->value( $selector, $new_value )
The value() method can be used to get/set the value of some input.
If strict is enabled and no input has the indicated name, then this
method will croak.

If multiple inputs have the same name, only the first one will be
affected.

The call:

$form->value('foo')

is basically a short-hand for:

$form->find_input('foo')->value;

@names = $form->param
@values = $form->param( $name )
$form->param( $name, $value, ... )
$form->param($name, \@values)

Alternative interface to examining and setting the values of the form.

If called without arguments then it returns the names of all the inputs in the form. The names will not repeat even if multiple inputs have the same name. In scalar context the number of different names is returned.

If called with a single argument then it returns the value or values of inputs with the given name. If called in scalar context only the first value is returned. If no input exists with the given name, then `undef' is returned.

If called with 2 or more arguments then it will set values of the named inputs. This form will croak if no inputs have the given name or if any of the values provided does not fit. Values can also be provided as a reference to an array. This form will allow unsettings all values with the given name as well.

This interface resembles that of the param() function of the CGI module.

$form->try_others(\&callback)

This method will iterate over all permutations of unvisited enumerated values (<select>, <radio>, <checkbox>) and invoke the callback for each. The callback is passed the $form as argument. The return value from the callback is ignored and the try_others() method itself does not return anything.

$request = $form->make_request

Will return an `HTTP::Request' object that reflects the current setting of the form. You might want to use the click() method instead.

$request = $form->click
$request = $form->click( $selector )
$request = $form->click( $x, $y )
$request = $form->click( $selector, $x, $y )

Will "click" on the first clickable input (which will be of type `submit' or `image'). The result of clicking is an `HTTP::Request' object that can then be passed to `LWP::UserAgent' if you want to obtain the server response.

If a $selector is specified, we will click on the first clickable input matching the selector, and the method will croak if no matching clickable input is found. If $selector is *not* specified, then it is ok if the form contains no clickable inputs. In this case
the click() method returns the same request as the make_request() method would do. See description of the find_input() method above for how the $selector is specified.

If there are multiple clickable inputs with the same name, then there is no way to get the click() method of the 'HTML::Form' to click on any but the first. If you need this you would have to locate the input with find_input() and invoke the click() method on the given input yourself.

A click coordinate pair can also be provided, but this only makes a difference if you clicked on an image. The default coordinate is (1,1). The upper-left corner of the image is (0,0), but some badly coded CGI scripts are known to not recognize this. Therefore (1,1) was selected as a safer default.

@kw = $form->form

Returns the current setting as a sequence of key/value pairs. Note that keys might be repeated, which means that some values might be lost if the return values are assigned to a hash.

In scalar context this method returns the number of key/value pairs generated.

$form->dump

Returns a textual representation of current state of the form. Mainly useful for debugging. If called in void context, then the dump is printed on STDERR.

INPUTS

An 'HTML::Form' objects contains a sequence of *inputs*. References to the inputs can be obtained with the $form->inputs or $form->find_input methods.

Note that there is *not* a one-to-one correspondence between input *objects* and <input> *elements* in the HTML document. An input object basically represents a name/value pair, so when multiple HTML elements contribute to the same name/value pair in the submitted form they are combined.

The input elements that are mapped one-to-one are "text", "textarea", "password", "hidden", "file", "image", "submit" and "checkbox". For the "radio" and "option" inputs the story is not as simple: All <input type="radio"> elements with the same name will contribute to the same input radio object. The number of radio input objects will be the same as the number of distinct names used for the <input type="radio"> elements. For a <select> element without the 'multiple' attribute there will be one input object of type of "option". For a <select multiple>
element there will be one input object for each contained <option> element. Each one of these option objects will have the same name.

The following methods are available for the *input* objects:

```perl
$input->type
```

Returns the type of this input. The type is one of the following strings: "text", "password", "hidden", "textarea", "file", "image", "submit", "radio", "checkbox" or "option".

```perl
$name = $input->name
$input->name( $new_name )
```

This method can be used to get/set the current name of the input.

```perl
$input->id
$input->class
```

These methods can be used to get/set the current id or class attribute for the input.

```perl
$input->selected( $selector )
```

Returns TRUE if the given selector matched the input. See the description of the find_input() method above for a description of the selector syntax.

```perl
$value = $input->value
$input->value( $new_value )
```

This method can be used to get/set the current value of an input.

If strict is enabled and the input only can take an enumerated list of values, then it is an error to try to set it to something else and the method will croak if you try.

You will also be able to set the value of read-only inputs, but a warning will be generated if running under `perl -w`.

```perl
$input->possible_values
```

Returns a list of all values that an input can take. For inputs that do not have discrete values, this returns an empty list.

```perl
$input->other_possible_values
```

Returns a list of all values not tried yet.

```perl
$input->value_names
```

For some inputs the values can have names that are different from the values themselves. The number of names returned by this method will match the number of values reported by $input->possible_values.

When setting values using the value() method it is also possible to
use the value names in place of the value itself.

```perl
$bool = $input->readonly
$input->readonly($bool)
```

This method is used to get/set the value of the readonly attribute. You are allowed to modify the value of readonly inputs, but setting the value will generate some noise when warnings are enabled. Hidden fields always start out readonly.

```perl
$bool = $input->disabled
$input->disabled($bool)
```

This method is used to get/set the value of the disabled attribute. Disabled inputs do not contribute any key/value pairs for the form value.

```perl
$input->form_name_value
```

Returns a (possible empty) list of key/value pairs that should be incorporated in the form value from this input.

```perl
$input->check
```

Some input types represent toggles that can be turned on/off. This includes "checkbox" and "option" inputs. Calling this method turns this input on without having to know the value name. If the input is already on, then nothing happens.

This has the same effect as:

```perl
$input->value($input->possible_values[1]);
```

The input can be turned off with:

```perl
$input->value(undef);
```

```perl
$input->click($form, $x, $y)
```

Some input types (currently "submit" buttons and "images") can be clicked to submit the form. The click() method returns the corresponding `HTTP::Request' object.

If the input is of type `file', then it has these additional methods:

```perl
$input->file
```

This is just an alias for the value() method. It sets the filename to read data from.

For security reasons this field will never be initialized from the parsing of a form. This prevents the server from triggering stealth uploads of arbitrary files from the client machine.
$filename = $input->filename
$filename( $new_filename )
    This get/set the filename reported to the server during file upload. This attribute defaults to the value reported by the file() method.

$content = $input->content
$content( $new_content )
    This get/set the file content provided to the server during file upload. This method can be used if you do not want the content to be read from an actual file.

$headers = $input->headers
    input->headers($key => $value, .... )
    This get/set additional header fields describing the file uploaded.
    This can for instance be used to set the `Content-Type' reported for the file.

SEE ALSO
    LWP, LWP::UserAgent, HTML::Parser

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    Found in path(s):
    * /opt/cola/permits/1138400414_1614281816.12/0/libhtml-form-perl-6.03-orig-1-tar-gz/HTML-Form-6.03/README
    No license file was found, but licenses were detected in source scan.

    license: perl

    Found in path(s):
    * /opt/cola/permits/1138400414_1614281816.12/0/libhtml-form-perl-6.03-orig-1-tar-gz/HTML-Form-6.03/META.yml

1.2265 python-defaults 2.7.9-1
1.2265.1 Available under license:
    The Debian packaging is 2010, Piotr Oarowski <piotr@debian.org> and is licensed under the MIT License.
    This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

    This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
2.3 version is released.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.2267 node-block-stream 0.0.7-1

1.2267.1 Available under license:

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1.2268 selinux 2.2.2-1ubuntu0.1
1.2268.1 Available under license:

/*
 * avcstat - Display SELinux avc statistics.
 *
 * Copyright (C) 2004 Red Hat, Inc., James Morris <jmorris@redhat.com>
 *
 * This program is free software; you can redistribute it and/or modify
 * it under the terms of the GNU General Public License version 2,
 * as published by the Free Software Foundation.
 *
 */
#include <stdio.h>
#include <stdlib.h>
#include <libgen.h>
#include <stdarg.h>
#include <errno.h>
#include <string.h>
#include <fcntl.h>
#include <unistd.h>
#include <signal.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <sys/ioctl.h>
#include <linux/limits.h>
#define DEF_STAT_FILE	"/avc/cache_stats"
#define DEF_BUF_SIZE	8192
#define HEADERS	"lookups hits misses allocations reclaims frees"

struct avc_cache_stats {
    unsigned long long lookups;
    unsigned long long hits;
    unsigned long long misses;
    unsigned long long allocations;
    unsigned long long reclaims;
    unsigned long long frees;
};

static int interval;
static int rows;
static char *progname;
extern char *selinux_mnt;
static __attribute__((__format__(printf,1,2))) void die(const char *msg, ...)
{
va_list args;

fputs("ERROR: ", stderr);

va_start(args, msg);
vfprintf(stderr, msg, args);
va_end(args);

if (errno)
    fprintf(stderr, "; %s", strerror(errno));

fputc('n', stderr);
exit(1);
}

static void usage(void)
{
    printf("Usage: %s [-c] [-f status_file] [interval]\n\n", progname);
    printf("Display SELinux AVC statistics. If the interval parameter is specified, the\n");
    printf("program will loop, displaying updated statistics every \interval\ seconds.\n");
    printf("Relative values are displayed by default. Use the -c option to specify the\n");
    printf("display of cumulative values. The -f option specifies the location of the\n");
    printf("AVC statistics file, defaulting to \%s\%s\%n", selinux_mnt,
        DEF_STAT_FILE);
}

static void set_window_rows(void)
{
    int ret;
    struct winsize ws;

    ret = ioctl(fileno(stdout), TIOCGWINSZ, &ws);
    if (ret < 0 || ws.ws_row < 3)
        ws.ws_row = 24;
    rows = ws.ws_row;
}

static void sighandler(int num)
{
    if (num == SIGWINCH)
        set_window_rows();
}

int main(int argc, char **argv)
struct avc_cache_stats tot, rel, last;
int fd, i, cumulative = 0;
struct sigaction sa;
char avcstatfile[PATH_MAX];

snprintf(avcstatfile, sizeof avcstatfile, "%s%s", selinux_mnt,
DEF_STAT_FILE);
progsname = basename(argv[0]);

memset(&last, 0, sizeof(last));

while ((i = getopt(argc, argv, "cf:h?-")) != -1) {
  switch (i) {
    case 'c':
      cumulative = 1;
      break;
    case 'f':
      strncpy(avcstatfile, optarg, sizeof avcstatfile);
      break;
    case 'h':
    case '-':
      usage();
      exit(0);
    default:
      usage();
      die("unrecognized parameter '%c'", i);
  }
}

if (optind < argc) {
  char *arg = argv[optind];
  unsigned int n = strtoul(arg, NULL, 10);

  if (errno == ERANGE) {
    usage();
    die("invalid interval \%s\", arg);
  }
  if (n == 0) {
    usage();
    exit(0);
  }
  interval = n;
}

sa.sa_handler = sighandler;
sa.sa_flags = SA_RESTART;
sigemptyset(&sa.sa_mask);
i = sigaction(SIGWINCH, &sa, NULL);
if (i < 0)
die("sigaction");

set_window_rows();
fd = open(avcstatfile, O_RDONLY);
if (fd < 0)
die("open: \%s\", avcstatfile);

for (i = 0; i++;) {
    char *line;
    ssize_t ret, parsed = 0;

    memset(buf, 0, DEF_BUF_SIZE);
    ret = read(fd, buf, DEF_BUF_SIZE-1);
    if (ret < 0)
die("read");

    if (ret == 0)
die("read: \%s\: unexpected end of file",
         avcstatfile);

    line = strtok(buf, "\n");
    if (!line)
die("unable to parse \%s\: end of line not found",
         avcstatfile);

    if (strcmp(line, HEADERS))
die("unable to parse \%s\: invalid headers",
         avcstatfile);

    if (line || !(i % (rows - 2)))
printf("%10s %10s %10s %10s %10s %10s\n", "lookups",
              "hits", "misses", "allocs", "reclaims", "frees");

    memset(&tot, 0, sizeof(tot));

    while ((line = strtok(NULL, "\n"))) {
struct avc_cache_stats tmp;

    ret = sscanf(line, "%llu %llu %llu %llu %llu %llu",
                  &tmp.lookups,
                  &tmp.hits,
                  &tmp.misses,
                  &tmp.allocations,
                  &tmp.reclaims, &tmp.frees);
    if (ret != 6)
die("unable to parse \%s\: scan error",}
avcstatfile);

tot.lookups += tmp.lookups;
tot.hits += tmp.hits;
tot.misses += tmp.misses;
tot.allocations += tmp.allocations;
tot.reclaims += tmp.reclaims;
tot.frees += tmp.frees;
parsed = 1;
}

if (!parsed)
die("unable to parse \\
%s\\: no data", avcstatfile);

if (cumulative || (!cumulative && !))
printf("%10Lu %10Lu %10Lu %10Lu %10Lu %10Lu\n",
tot.lookups, tot.hits, tot.misses,
tot.allocations, tot.reclaims, tot.frees);
else {
rel.lookups = tot.lookups - last.lookups;
rel.hits = tot.hits - last.hits;
rel.misses = tot.misses - last.misses;
rel.allocations = tot.allocations - last.allocations;
rel.reclaims = tot.reclaims - last.reclaims;
rel.frees = tot.frees - last.frees;
printf("%10Lu %10Lu %10Lu %10Lu %10Lu %10Lu\n",
rel.lookups, rel.hits, rel.misses,
rel.allocations, rel.reclaims, rel.frees);
}

if (!interval)
break;

memcpy(&last, &tot, sizeof(last));
sleep(interval);

ret = lseek(fd, 0, 0);
if (ret < 0)
die("lseek");
}

close(fd);
return 0;
}
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1.2269 libwww-perl 6.05-2

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Found in path(s):
* /opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/lib/LWP/Authen/Ntlm.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

LWP::RobotUA - a class for well-behaved Web robots

=head1 SYNOPSIS

use LWP::RobotUA;
my $ua = LWP::RobotUA->new('my-robot/0.1', 'me@foo.com');
$ua->delay(10); # be very nice -- max one hit every ten minutes!
...

# Then just use it just like a normal LWP::UserAgent:
my $response = $ua->get('http://whatever.int/...');
...
DESCRIPTION

This class implements a user agent that is suitable for robot applications. Robots should be nice to the servers they visit. They should consult the F<robots.txt> file to ensure that they are welcomed and they should not make requests too frequently.

But before you consider writing a robot, take a look at <URL:http://www.robotstxt.org/>.

When you use a I<LWP::RobotUA> object as your user agent, then you do not really have to think about these things yourself; C<robots.txt> files are automatically consulted and obeyed, the server isn't queried too rapidly, and so on. Just send requests as you do when you are using a normal I<LWP::UserAgent> object (using C<< $ua->get(...) >>, C<< $ua->head(...) >>, C<< $ua->request(...) >>, etc.), and this special agent will make sure you are nice.

METHODS

The LWP::RobotUA is a sub-class of LWP::UserAgent and implements the same methods. In addition the following methods are provided:

=item $ua = LWP::RobotUA->new( %options )

=item $ua = LWP::RobotUA->new( $agent, $from )

=item $ua = LWP::RobotUA->new( $agent, $from, $rules )

The LWP::UserAgent options C<agent> and C<from> are mandatory. The options C<delay>, C<use_sleep> and C<rules> initialize attributes private to the RobotUA. If C<rules> are not provided, then C<WWW::RobotRules> is instantiated providing an internal database of F<robots.txt>.

It is also possible to just pass the value of C<agent>, C<from> and optionally C<rules> as plain positional arguments.

=item $ua->delay

=item $ua->delay( $minutes )

Get/set the minimum delay between requests to the same server, in I<minutes>. The default is 1 minute. Note that this number doesn't have to be an integer; for example, this sets the delay to 10 seconds:
$ua->delay(10/60);

=item $ua->use_sleep

=item $ua->use_sleep( $boolean )

Get/set a value indicating whether the UA should sleep() if requests arrive too fast, defined as $ua->delay minutes not passed since last request to the given server. The default is TRUE. If this value is FALSE then an internal SERVICE_UNAVAILABLE response will be generated. It will have an Retry-After header that indicates when it is OK to send another request to this server.

=item $ua->rules

=item $ua->rules( $rules )

Set/get which I<WWW::RobotRules> object to use.

=item $ua->no_visits( $netloc )

Returns the number of documents fetched from this server host. Yeah I know, this method should probably have been named num_visits() or something like that. :-(

=item $ua->host_wait( $netloc )

Returns the number of I<seconds> (from now) you must wait before you can make a new request to this host.

=item $ua->as_string

Returns a string that describes the state of the UA. Mainly useful for debugging.

=back

=head1 SEE ALSO

L<LWP::UserAgent>, L<WWW::RobotRules>

=head1 COPYRIGHT

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This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
=head1 NAME

LWP::Protocol - Base class for LWP protocols

=head1 SYNOPSIS

package LWP::Protocol::foo;
require LWP::Protocol;
@ISA=qw(LWP::Protocol);

=head1 DESCRIPTION

This class is used as the base class for all protocol implementations supported by the LWP library.

When creating an instance of this class using C<LWP::Protocol::create($url)>, and you get an initialised subclass appropriate for that access method. In other words, the LWP::Protocol::create() function calls the constructor for one of its subclasses.

All derived LWP::Protocol classes need to override the request() method which is used to service a request. The overridden method can make use of the collect() function to collect together chunks of data as it is received.

The following methods and functions are provided:

=over 4

=item $prot = LWP::Protocol->new()

The LWP::Protocol constructor is inherited by subclasses. As this is a virtual base class this method should B<not> be called directly.

=item $prot = LWP::Protocol::create($scheme)

Create an object of the class implementing the protocol to handle the given scheme. This is a function, not a method. It is more an object factory than a constructor. This is the function user agents should use to access protocols.
Get and/or set implementor class for a scheme. Returns "" if the specified scheme is not supported.

Dispatches a request over the protocol, and returns a response object. This method needs to be overridden in subclasses. Refer to L<LWP::UserAgent> for description of the arguments.

Called to collect the content of a request, and process it appropriately into a scalar, file, or by calling a callback. If $arg is undefined, then the content is stored within the $response. If $arg is a simple scalar, then $arg is interpreted as a file name and the content is written to this file. If $arg is a reference to a routine, then content is passed to this routine.

The $collector is a routine that will be called and which is responsible for returning pieces (as ref to scalar) of the content to process. The $collector signals EOF by returning a reference to an empty string.

The return value from collect() is the $response object reference.

B<Note:> We will only use the callback or file argument if $response->is_success(). This avoids sending content data for redirects and authentication responses to the callback which would be confusing.

Can be called when the whole response content is available as $content. This will invoke collect() with a collector callback that returns a reference to $content the first time and an empty string the next.

Inspect the F<LWP/Protocol/file.pm> and F<LWP/Protocol/http.pm> files
for examples of usage.

=head1 COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/lib/LWP/Protocol.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

LWP::ConnCache - Connection cache manager

=head1 NOTE

This module is experimental. Details of its interface is likely to change in the future.

=head1 SYNOPSIS

use LWP::ConnCache;
my $cache = LWP::ConnCache->new;
$cache->deposit($type, $key, $sock);
$sock = $cache->withdraw($type, $key);

=head1 DESCRIPTION

The C<LWP::ConnCache> class is the standard connection cache manager for LWP::UserAgent.

The following basic methods are provided:

=over

=item $cache = LWP::ConnCache->new( %options )

This method constructs a new C<LWP::ConnCache> object. The only option currently accepted is 'total_capacity'. If specified it initialize the total_capacity option. It defaults to the value 1.

=item $cache->total_capacity( [$num_connections] )

Get/sets the number of connection that will be cached. Connections
will start to be dropped when this limit is reached. If set to C<0>,
then all connections are immediately dropped. If set to C<undef>,
then there is no limit.

=item $cache->capacity($type, [$num_connections] )

Get/set a limit for the number of connections of the specified type
that can be cached. The $type will typically be a short string like
"http" or "ftp".

=item $cache->drop( [$checker, [$reason]] )

Drop connections by some criteria. The $checker argument is a
subroutine that is called for each connection. If the routine returns
a TRUE value then the connection is dropped. The routine is called
with ($conn, $type, $key, $deposit_time) as arguments.

Shortcuts: If the $checker argument is absent (or C<undef>) all cached
connections are dropped. If the $checker is a number then all
connections untouched that the given number of seconds or more are
dropped. If $checker is a string then all connections of the given
type are dropped.

The $reason argument is passed on to the dropped() method.

=item $cache->prune

Calling this method will drop all connections that are dead. This is
tested by calling the ping() method on the connections. If the ping()
method exists and returns a FALSE value, then the connection is
dropped.

=item $cache->get_types

This returns all the 'type' fields used for the currently cached
connections.

=item $cache->get_connections( [$type] )

This returns all connection objects of the specified type. If no type
is specified then all connections are returned. In scalar context the
number of cached connections of the specified type is returned.

=back

The following methods are called by low-level protocol modules to
try to save away connections and to get them back.
This method adds a new connection to the cache. As a result other already cached connections might be dropped. Multiple connections with the same $type/$key might added.

This method tries to fetch back a connection that was previously deposited. If no cached connection with the specified $type/$key is found, then C<undef> is returned. There is not guarantee that a deposited connection can be withdrawn, as the cache manager is free to drop connections at any time.

The following methods are called internally. Subclasses might want to override them.

This method is called with after a new connection is added (deposited) in the cache or capacity limits are adjusted. The default implementation drops connections until the specified capacity limits are not exceeded.

This method is called when a connection is dropped. The record belonging to the dropped connection is passed as the first argument and a string describing the reason for the drop is passed as the second argument. The default implementation makes some noise if the $LWP::ConnCache::DEBUG variable is set and nothing more.

For specialized cache policy it makes sense to subclass C<LWP::ConnCache> and perhaps override the deposit(), enforce_limits() and dropping() methods.

The object itself is a hash. Keys prefixed with C<cc_> are reserved
for the base class.

=head1 SEE ALSO

L<LWP::UserAgent>

=head1 COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/lib/LWP/ConnCache.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

lwp-request, GET, POST, HEAD - Simple command line user agent

=head1 SYNOPTIS

B<lwp-request> [B<-afPuUsdhx>] [B<-m> I<method>] [B<-b> I<base URL>] [B<-t> I<timeout>] [B<-i> I<if-modified-since>] [B<-c> I<content-type>] [B<-C> I<credentials>] [B<-p> I<proxy-url>] [B<-o> I<format>] I<url>...

=head1 DESCRIPTION

This program can be used to send requests to WWW servers and your local file system. The request content for POST and PUT methods is read from stdin. The content of the response is printed on stdout. Error messages are printed on stderr. The program returns a status value indicating the number of URLs that failed.

The options are:

=over 4

=item -m <method>

Set which method to use for the request. If this option is not used, then the method is derived from the name of the program.

=item -f

Force request through, even if the program believes that the method is
illegal. The server might reject the request eventually.

=item -b <uri>

This URI will be used as the base URI for resolving all relative URIs given as argument.

=item -t <timeout>

Set the timeout value for the requests. The timeout is the amount of time that the program will wait for a response from the remote server before it fails. The default unit for the timeout value is seconds. You might append "m" or "h" to the timeout value to make it minutes or hours, respectively. The default timeout is '3m', i.e. 3 minutes.

=item -i <time>

Set the If-Modified-Since header in the request. If <time> is the name of a file, use the modification timestamp for this file. If <time> is not a file, it is parsed as a literal date. Take a look at L<HTTP::Date> for recognized formats.

=item -c <content-type>

Set the Content-Type for the request. This option is only allowed for requests that take a content, i.e. POST and PUT. You can force methods to take content by using the C<-f> option together with C<-c>. The default Content-Type for POST is C<application/x-www-form-urlencoded>. The default Content-type for the others is C<text/plain>.

=item -p <proxy-url>

Set the proxy to be used for the requests. The program also loads proxy settings from the environment. You can disable this with the C<-P> option.

=item -P

Don't load proxy settings from environment.

=item -H <header>

Send this HTTP header with each request. You can specify several, e.g.:

```
lwp-request
-H 'Referer: http://other.url/
-H 'Host: somehost'
```
http://this.url/

=item -C <username>:<password>

Provide credentials for documents that are protected by Basic Authentication. If the document is protected and you did not specify the username and password with this option, then you will be prompted to provide these values.

=back

The following options controls what is displayed by the program:

=over 4

=item -u

Print request method and absolute URL as requests are made.

=item -U

Print request headers in addition to request method and absolute URL.

=item -s

Print response status code. This option is always on for HEAD requests.

=item -S

Print response status chain. This shows redirect and authorization requests that are handled by the library.

=item -e

Print response headers. This option is always on for HEAD requests.

=item -E

Print response status chain with full response headers.

=item -d

Do B<not> print the content of the response.

=item -o <format>

Process HTML content in various ways before printing it. If the content type of the response is not HTML, then this option has no
effect. The legal format values are; I<text>, I<ps>, I<links>,
I<html> and I<dump>.

If you specify the I<text> format then the HTML will be formatted as
plain latin1 text. If you specify the I<ps> format then it will be
formatted as Postscript.

The I<links> format will output all links found in the HTML document.
Relative links will be expanded to absolute ones.

The I<html> format will reformat the HTML code and the I<dump> format
will just dump the HTML syntax tree.

Note that the C<HTML-Tree> distribution needs to be installed for this
option to work. In addition the C<HTML-Format> distribution needs to
be installed for I<-o text> or I<-o ps> to work.

=item -v

Print the version number of the program and quit.

=item -h

Print usage message and quit.

=item -a

Set text(ascii) mode for content input and output. If this option is not
used, content input and output is done in binary mode.

=back

Because this program is implemented using the LWP library, it will
only support the protocols that LWP supports.

=head1 SEE ALSO

L<lwp-mirror>, L<LWP>

=head1 COPYRIGHT

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=head1 AUTHOR
Found in path(s):
* /opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/bin/lwp-request

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=head1 NAME

LWP - The World-Wide Web library for Perl

=head1 SYNOPSIS

use LWP;

print "This is libwww-perl-$LWP::VERSION\n";

=head1 DESCRIPTION

The libwww-perl collection is a set of Perl modules which provides a simple and consistent application programming interface (API) to the World-Wide Web. The main focus of the library is to provide classes and functions that allow you to write WWW clients. The library also contain modules that are of more general use and even classes that help you implement simple HTTP servers.

Most modules in this library provide an object oriented API. The user agent, requests sent and responses received from the WWW server are all represented by objects. This makes a simple and powerful interface to these services. The interface is easy to extend and customize for your own needs.

The main features of the library are:

=over 3

=item *

Contains various reusable components (modules) that can be used separately or together.

=item *

Provides an object oriented model of HTTP-style communication. Within
this framework we currently support access to http, https, gopher, ftp, news, file, and mailto resources.

- Provides a full object oriented interface or a very simple procedural interface.

- Supports the basic and digest authorization schemes.

- Supports transparent redirect handling.

- Supports access through proxy servers.

- Provides parser for F<robots.txt> files and a framework for constructing robots.

- Supports parsing of HTML forms.

- Implements HTTP content negotiation algorithm that can be used both in protocol modules and in server scripts (like CGI scripts).

- Supports HTTP cookies.

- Some simple command line clients, for instance C<lwp-request> and C<lwp-download>.

=head1 HTTP STYLE COMMUNICATION
The libwww-perl library is based on HTTP style communication. This section tries to describe what that means.

Let us start with this quote from the HTTP specification document <URL:http://www.w3.org/Protocols/>:

=over 3

=item

The HTTP protocol is based on a request/response paradigm. A client establishes a connection with a server and sends a request to the server in the form of a request method, URI, and protocol version, followed by a MIME-like message containing request modifiers, client information, and possible body content. The server responds with a status line, including the message's protocol version and a success or error code, followed by a MIME-like message containing server information, entity meta-information, and possible body content.

=back

What this means to libwww-perl is that communication always take place through these steps: First a I<request> object is created and configured. This object is then passed to a server and we get a I<response> object in return that we can examine. A request is always independent of any previous requests, i.e. the service is stateless. The same simple model is used for any kind of service we want to access.

For example, if we want to fetch a document from a remote file server, then we send it a request that contains a name for that document and the response will contain the document itself. If we access a search engine, then the content of the request will contain the query parameters and the response will contain the query result. If we want to send a mail message to somebody then we send a request object which contains our message to the mail server and the response object will contain an acknowledgment that tells us that the message has been accepted and will be forwarded to the recipient(s).

It is as simple as that!

=head2 The Request Object

The libwww-perl request object has the class name C<HTTP::Request>. The fact that the class name uses C<HTTP::> as a prefix only implies that we use the HTTP model of communication. It does not limit the kind of services we can try to pass this I<request>
to. For instance, we will send \texttt{HTTP::Request}s both to ftp and gopher servers, as well as to the local file system.

The main attributes of the request objects are:

\begin{itemize}
\item \textbf{method} is a short string that tells what kind of request this is. The most common methods are \texttt{GET}, \texttt{PUT}, \texttt{POST} and \texttt{HEAD}.
\item \textbf{uri} is a string denoting the protocol, server and the name of the "document" we want to access. The \texttt{uri} might also encode various other parameters.
\item \textbf{headers} contains additional information about the request and can also be used to describe the content. The headers are a set of keyword/value pairs.
\item \textbf{content} is an arbitrary amount of data.
\end{itemize}

\section*{The Response Object}

The libwww-perl response object has the class name \texttt{HTTP::Response}. The main attributes of objects of this class are:

\begin{itemize}
\item \textbf{code} is a numerical value that indicates the overall outcome of the request.
\item \textbf{message} is a short, human readable string that corresponds to the \texttt{code}.
\end{itemize}
B=headers> contains additional information about the response and describe the content.

B=content> is an arbitrary amount of data.

Since we don't want to handle all possible I=code> values directly in our programs, a libwww-perl response object has methods that can be used to query what kind of response this is. The most commonly used response classification methods are:

=over 3

=item is_success()

The request was successfully received, understood or accepted.

=item is_error()

The request failed. The server or the resource might not be available, access to the resource might be denied or other things might have failed for some reason.

=head2 The User Agent

Let us assume that we have created a I=request> object. What do we actually do with it in order to receive a I=response>? 

The answer is that you pass it to a I=user agent> object and this object takes care of all the things that need to be done (like low-level communication and error handling) and returns a I=response> object. The user agent represents your application on the network and provides you with an interface that can accept I=requests> and return I=responses>.

The user agent is an interface layer between your application code and the network. Through this interface you are able to access the various servers on the network.

The class name for the user agent is C=LWP::UserAgent>. Every libwww-perl application that wants to communicate should create at
least one object of this class. The main method provided by this
object is request(). This method takes an C<HTTP::Request> object as
argument and (eventually) returns a C<HTTP::Response> object.

The user agent has many other attributes that let you
configure how it will interact with the network and with your
application.

=back

=item *

B<timeout> specifies how much time we give remote servers to
respond before the library disconnects and creates an
internal I<timeout> response.

=item *

B<agent> specifies the name that your application uses when it
presents itself on the network.

=item *

B<from> can be set to the e-mail address of the person
responsible for running the application. If this is set, then the
address will be sent to the servers with every request.

=item *

B<parse_head> specifies whether we should initialize response
headers from the E<lt>head> section of HTML documents.

=item *

B<proxy> and B<no_proxy> specify if and when to go through
a proxy server. &lt;URL:http://www.w3.org/History/1994/WWW/Proxies/&gt;

=item *

B<credentials> provides a way to set up user names and
passwords needed to access certain services.

=back

Many applications want even more control over how they interact
with the network and they get this by sub-classing
C<LWP::UserAgent>. The library includes a
sub-class, C<LWP::RobotUA>, for robot applications.
An Example

This example shows how the user agent, a request and a response are represented in actual perl code:

```perl
# Create a user agent object
use LWP::UserAgent;
my $ua = LWP::UserAgent->new;
$ua->agent("MyApp/0.1 ");

# Create a request
my $req = HTTP::Request->new(POST => 'http://search.cpan.org/search');
$req->content_type('application/x-www-form-urlencoded');
$req->content('query=libwww-perl&mode=dist');

# Pass request to the user agent and get a response back
my $res = $ua->request($req);

# Check the outcome of the response
if ($res->is_success) {
    print $res->content;
} else {
    print $res->status_line, "\n";
}

The $ua is created once when the application starts up. New request objects should normally created for each request sent.

NETWORK SUPPORT

This section discusses the various protocol schemes and the HTTP style methods that headers may be used for each.

For all requests, a "User-Agent" header is added and initialized from the $ua->agent attribute before the request is handed to the network layer. In the same way, a "From" header is initialized from the $ua->from attribute.

For all responses, the library adds a header called "Client-Date". This header holds the time when the response was received by your application. The format and semantics of the header are the same as the server created "Date" header. You may also encounter other "Client-XXX" headers. They are all generated by the library internally and are not received from the servers.
HTTP Requests

HTTP requests are just handed off to an HTTP server and it decides what happens. Few servers implement methods beside the usual "GET", "HEAD", "POST" and "PUT", but CGI-scripts may implement any method they like.

If the server is not available then the library will generate an internal error response.

The library automatically adds a "Host" and a "Content-Length" header to the HTTP request before it is sent over the network.

For a GET request you might want to add a "If-Modified-Since" or "If-None-Match" header to make the request conditional.

For a POST request you should add the "Content-Type" header. When you try to emulate HTML `<form>` handling you should usually let the value of the "Content-Type" header be "application/x-www-form-urlencoded". See L<lwpcook> for examples of this.

The libwww-perl HTTP implementation currently support the HTTP/1.1 and HTTP/1.0 protocol.

The library allows you to access proxy server through HTTP. This means that you can set up the library to forward all types of request through the HTTP protocol module. See L<LWP::UserAgent> for documentation of this.

HTTPS Requests

HTTPS requests are HTTP requests over an encrypted network connection using the SSL protocol developed by Netscape. Everything about HTTP requests above also apply to HTTPS requests. In addition the library will add the headers "Client-SSL-Cipher", "Client-SSL-Cert-Subject" and "Client-SSL-Cert-Issuer" to the response. These headers denote the encryption method used and the name of the server owner.

The request can contain the header "If-SSL-Cert-Subject" in order to make the request conditional on the content of the server certificate. If the certificate subject does not match, no request is sent to the server and an internally generated error response is returned. The value of the "If-SSL-Cert-Subject" header is interpreted as a Perl regular expression.

FTP Requests
The library currently supports GET, HEAD and PUT requests. GET retrieves a file or a directory listing from an FTP server. PUT stores a file on a ftp server.

You can specify a ftp account for servers that want this in addition to user name and password. This is specified by including an "Account" header in the request.

User name/password can be specified using basic authorization or be encoded in the URL. Failed logins return an UNAUTHORIZED response with "WWW-Authenticate: Basic" and can be treated like basic authorization for HTTP.

The library supports ftp ASCII transfer mode by specifying the "type=a" parameter in the URL. It also supports transfer of ranges for FTP transfers using the "Range" header.

Directory listings are by default returned unprocessed (as returned from the ftp server) with the content media type reported to be "text/ftp-dir-listing". The C<File::Listing> module provides methods for parsing of these directory listing.

The ftp module is also able to convert directory listings to HTML and this can be requested via the standard HTTP content negotiation mechanisms (add an "Accept: text/html" header in the request if you want this).

For normal file retrievals, the "Content-Type" is guessed based on the file name suffix. See L<LWP::MediaTypes>.

The "If-Modified-Since" request header works for servers that implement the MDTM command. It will probably not work for directory listings though.

Example:

```perl
$req = HTTP::Request->new(GET => 'ftp://me:passwd@ftp.some.where.com/');
$req->header(Accept => "text/html, */*;q=0.1");
```

=head2 News Requests

Access to the USENET News system is implemented through the NNTP protocol. The name of the news server is obtained from the NNTP_SERVER environment variable and defaults to "news". It is not possible to specify the hostname of the NNTP server in news: URLs.

The library supports GET and HEAD to retrieve news articles through the NNTP protocol. You can also post articles to newsgroups by using
(surprise!) the POST method.

GET on newsgroups is not implemented yet.

Examples:

```perl
$req = HTTP::Request->new(GET => 'news:abc1234@a.sn.no');

$req = HTTP::Request->new(POST => 'news:comp.lang.perl.test');
$req->header(Subject => 'This is a test',
             From    => 'me@some.where.org');
$req->content(<EOT);  This is the content of the message that we are sending to
                         the world.
EOT
```

=head2 Gopher Request

The library supports the GET and HEAD methods for gopher requests. All
request header values are ignored. HEAD cheats and returns a
response without even talking to server.

Gopher menus are always converted to HTML.

The response "Content-Type" is generated from the document type
encoded (as the first letter) in the request URL path itself.

Example:

```perl
$req = HTTP::Request->new(GET => 'gopher://gopher.sn.no/');
```

=head2 File Request

The library supports GET and HEAD methods for file requests. The
"If-Modified-Since" header is supported. All other headers are
ignored. The I<host> component of the file URL must be empty or set
to "localhost". Any other I<host> value will be treated as an error.

Directories are always converted to an HTML document. For normal
files, the "Content-Type" and "Content-Encoding" in the response are
guessed based on the file suffix.

Example:

```perl
$req = HTTP::Request->new(GET => 'file:/etc/passwd');
```
=head2 Mailto Request

You can send (aka "POST") mail messages using the library. All headers specified for the request are passed on to the mail system. The "To" header is initialized from the mail address in the URL.

Example:

$req = HTTP::Request->new(POST => 'mailto:libwww@perl.org');
$req->header(Subject => "subscribe");
$req->content("Please subscribe me to the libwww-perl mailing list!
");

=head2 CPAN Requests

URLs with scheme C<cpan:> are redirected to the a suitable CPAN mirror. If you have your own local mirror of CPAN you might tell LWP to use it for C<cpan:> URLs by an assignment like this:

$LWP::Protocol::cpan::CPAN = "file:/local/CPAN/";

Suitable CPAN mirrors are also picked up from the configuration for the CPAN.pm, so if you have used that module a suitable mirror should be picked automatically. If neither of these apply, then a redirect to the generic CPAN http location is issued.

Example request to download the newest perl:

$req = HTTP::Request->new(GET => "cpan:src/latest.tar.gz");

=head1 OVERVIEW OF CLASSES AND PACKAGES

This table should give you a quick overview of the classes provided by the library. Indentation shows class inheritance.

LWP::MemberMixin -- Access to member variables of Perl5 classes
LWP::UserAgent -- WWW user agent class
LWP::RobotUA -- When developing a robot applications
LWP::Protocol -- Interface to various protocol schemes
LWP::Protocol::http -- http:// access
LWP::Protocol::file -- file:// access
LWP::Protocol::ftp -- ftp:// access
...

LWP::Authen::Basic -- Handle 401 and 407 responses
LWP::Authen::Digest
HTTP::Headers -- MIME/RFC822 style header (used by HTTP::Message)
HTTP::Message -- HTTP style message
HTTP::Request -- HTTP request
HTTP::Response -- HTTP response
HTTP::Daemon -- A HTTP server class

WWW::RobotRules -- Parse robots.txt files
WWW::RobotRules::AnyDBM_File -- Persistent RobotRules

Net::HTTP -- Low level HTTP client

The following modules provide various functions and definitions.

LWP -- This file. Library version number and documentation.
LWP::MediaTypes -- MIME types configuration (text/html etc.)
LWP::Simple -- Simplified procedural interface for common functions
HTTP::Status -- HTTP status code (200 OK etc)
HTTP::Date -- Date parsing module for HTTP date formats
HTTP::Negotiate -- HTTP content negotiation calculation
File::Listing -- Parse directory listings
HTML::Form -- Processing for <form>s in HTML documents

=head1 MORE DOCUMENTATION

All modules contain detailed information on the interfaces they provide. The L<lwpcook> manpage is the libwww-perl cookbook that contain examples of typical usage of the library. You might want to take a look at how the scripts L<lwp-request>, L<lwp-download>, L<lwp-dump> and L<lwp-mirror> are implemented.

=head1 ENVIRONMENT

The following environment variables are used by LWP:

=over

=item HOME

The C<LWP::MediaTypes> functions will look for the F<.media.types> and F<.mime.types> files relative to your home directory.

=item http_proxy

=item ftp_proxy

=item xxx_proxy
These environment variables can be set to enable communication through a proxy server. See the description of the \texttt{C<env_proxy>} method in \texttt{L<LWP::UserAgent>}.  

\item \texttt{PERL\_LWP\_ENV\_PROXY}

If set to a \texttt{TRUE} value, then the \texttt{C<LWP::UserAgent>} will by default call \texttt{C<env_proxy>} during initialization. This makes LWP honor the proxy variables described above.

\item \texttt{PERL\_LWP\_SSL\_VERIFY\_HOSTNAME}

The default \texttt{C<verify_hostname>} setting for \texttt{C<LWP::UserAgent>}. If not set the default will be 1. Set it as 0 to disable hostname verification (the default prior to libwww-perl 5.840).

\item \texttt{PERL\_LWP\_SSL\_CA\_FILE}

\item \texttt{PERL\_LWP\_SSL\_CA\_PATH}

The file and/or directory where the trusted Certificate Authority certificates is located. See \texttt{L<LWP::UserAgent>} for details.

\item \texttt{PERL\_HTTP\_URI\_CLASS}

Used to decide what URI objects to instantiate. The default is \texttt{C<URI>}. You might want to set it to \texttt{C<URI::URL>} for compatibility with old times.

\back

\section{AUTHORS}

LWP was made possible by contributions from Adam Newby, Albert Dvornik, Alexandre Duret-Lutz, Andreas Gustafsson, Andreas König, Andrew Pimlott, Andy Lester, Ben Coleman, Benjamin Low, Ben Low, Ben Tilly, Blair Zajar, Bob Dalgleish, BooK, Brad Hughes, Brian J. Murrell, Brian McCauley, Charles C. Fu, Charles Lane, Chris Nandor, Christian Gilmore, Chris W. Unger, Craig Macdonald, Dale Couch, Dan Kubb, Dave Dunkin, Dave W. Smith, David Coppit, David Dick, David D. Kilzer, Doug MacEachern, Edward Avis, erik, Gary Shea, Gisle Aas, Graham Barr, Gurusamy Sarathy, Hans de Graaff, Harald Joerg, Harry Bochner, Hugo, Ilya Zakharevich, INOUE Yoshinari, Ivan Panchenko, Jack Shirazi, James Tillman, Jan Dubois, Jared Rhine, Jim Stern, Joao Lopes, John Klar, Johnny Lee, Josh Kronengold, Josh Rai, Joshua
LWP owes a lot in motivation, design, and code, to the libwww-perl library for Perl4 by Roy Fielding, which included work from Alberto Accomazzi, James Casey, Brooks Cutter, Martijn Koster, Oscar Nierstrasz, Mel Melchner, Gertjan van Oosten, Jared Rhine, Jack Shirazi, Gene Spafford, Marc VanHeyningen, Steven E. Brenner, Marion Hakanson, Waldemar Kebsch, Tony Sanders, and Larry Wall; see the libwww-perl-0.40 library for details.

=head1 COPYRIGHT

Copyright 1995-2009, Gisle Aas
Copyright 1995, Martijn Koster

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 AVAILABILITY

The latest version of this library is likely to be available from CPAN as well as:

http://github.com/libwww-perl/libwww-perl

The best place to discuss this code is on the <libwww@perl.org> mailing list.

=cut

Found in path(s):
* /opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/lib/LWP.pm
No license file was found, but licenses were detected in source scan.
The libwww-perl collection is a set of Perl modules which provides a simple and consistent application programming interface to the World-Wide Web. The main focus of the library is to provide classes and functions that allow you to write WWW clients. The library also contain modules that are of more general use and even classes that help you implement simple HTTP servers.

PREREQUISITES

In order to install and use this package you will need Perl version 5.8.1 or better. Some modules within this package depend on other packages that are distributed separately from Perl. We recommend that you have the following packages installed before you install libwww-perl:

- Digest-MD5
- Encode-Locale
- HTML-Form
- HTML-Parser
- HTML-Tagset
- HTTP-Cookies
- HTTP-Date
- HTTP-Message
- HTTP-Negotiate
- libnet
- LWP-MediaTypes
- MIME-Base64
- Net-HTTP
- URI
- WWW-RobotRules

If you want to access sites using the https protocol, then you need to install the LWP::Protocol::https module from CPAN.

INSTALLATION

You install libwww-perl using the normal perl module distribution drill:

```bash
perl Makefile.PL
make
make test
make install
```
If you don't want to install any programs (only the library files) then pass the `--no-programs` option to Makefile.PL:

    perl Makefile.PL --no-programs

DOCUMENTATION

See the lib/LWP.pm file for an overview of the library. See the Changes file for recent changes.

POD style documentation is included in all modules and scripts. These are normally converted to manual pages and installed as part of the "make install" process. You should also be able to use the `perldoc` utility to extract and read documentation from the module files directly.

SUPPORT

Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list. This mailing list is also the place for general discussions and development of the libwww-perl package.

AVAILABILITY

The latest version of libwww-perl is available from CPAN:

    http://search.cpan.org/dist/libwww-perl/

If you want to hack on the source it might be a good idea to grab the latest version with git using the command:

    git clone git://github.com/libwww-perl/libwww-perl.git lwp

You can also browse the git repository at:

    https://github.com/libwww-perl/libwww-perl

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This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
LWP (short for "Library for WWW in Perl") is a very popular group of Perl modules for accessing data on the Web. Like most Perl module-distributions, each of LWP's component modules comes with documentation that is a complete reference to its interface. However, there are so many modules in LWP that it's hard to know where to start looking for information on how to do even the simplest most common things.

Really introducing you to using LWP would require a whole book -- a book that just happens to exist, called I<Perl & LWP>. But this article should give you a taste of how you can go about some common tasks with LWP.

=head2 Getting documents with LWP::Simple

If you just want to get what's at a particular URL, the simplest way to do it is LWP::Simple's functions.

In a Perl program, you can call its C<get($url)> function. It will try getting that URL's content. If it works, then it'll return the content; but if there's some error, it'll return undef.

    my $url = 'http://www.npr.org/programs/fa/?todayDate=current';
    # Just an example: the URL for the most recent /Fresh Air/ show

use LWP::Simple;
my $content = get $url;
die "Couldn't get $url" unless defined $content;

    # Then go do things with $content, like this:

    if($content =~ m/jazz/i) {
        print "They're talking about jazz today on Fresh Air!'n";
    }

else {
    print "Fresh Air is apparently jazzless today.\n";
}

The handiest variant on C<get> is C<getprint>, which is useful in Perl one-liners. If it can get the page whose URL you provide, it sends it to STDOUT; otherwise it complains to STDERR.

% perl -MLWP::Simple -e "getprint 'http://www.cpan.org/RECENT'"

That is the URL of a plain text file that lists new files in CPAN in the past two weeks. You can easily make it part of a tidy little shell command, like this one that mails you the list of new C<Acme::> modules:

% perl -MLWP::Simple -e "getprint 'http://www.cpan.org/RECENT' | grep '/by-module/Acme' | mail -s "New Acme modules! Joy!" $USER

There are other useful functions in LWP::Simple, including one function for running a HEAD request on a URL (useful for checking links, or getting the last-revised time of a URL), and two functions for saving/mirroring a URL to a local file. See L<the LWP::Simple documentation|LWP::Simple> for the full details, or chapter 2 of I<Perl & LWP> for more examples.

=head2 The Basics of the LWP Class Model

LWP::Simple's functions are handy for simple cases, but its functions don't support cookies or authorization, don't support setting header lines in the HTTP request, generally don't support reading header lines in the HTTP response (notably the full HTTP error message, in case of an error). To get at all those features, you'll have to use the full LWP class model.

While LWP consists of dozens of classes, the main two that you have to understand are L<LWP::UserAgent> and L<HTTP::Response>. LWP::UserAgent is a class for "virtual browsers" which you use for performing requests, and L<HTTP::Response> is a class for the responses (or error messages) that you get back from those requests.

The basic idiom is C<< $response = $browser->get($url) >>, or more fully
illustrated:

# Early in your program:

use LWP 5.64; # Loads all important LWP classes, and makes
# sure your version is reasonably recent.

my $browser = LWP::UserAgent->new;

...

# Then later, whenever you need to make a get request:
my $url = 'http://www.npr.org/programs/fa/?todayDate=current';

my $response = $browser->get( $url );
die "Can't get $url -- ", $response->status_line
    unless $response->is_success;

die "Hey, I was expecting HTML, not ", $response->content_type
    unless $response->content_type eq 'text/html';
    # or whatever content-type you're equipped to deal with

# Otherwise, process the content somehow:

if($response->decoded_content =~ m/jazz/i) {
    print "They're talking about jazz today on Fresh Air!

";}
else {
    print "Fresh Air is apparently jazzless today.
";
}

There are two objects involved: C<$browser>, which holds an object of
class LWP::UserAgent, and then the C<$response> object, which is of
class HTTP::Response. You really need only one browser object per
program; but every time you make a request, you get back a new
HTTP::Response object, which will have some interesting attributes:

=over

=item *

A status code indicating
success or failure
(which you can test with C<< $response->is_success >>).

=item *

An HTTP status
line that is hopefully informative if there's failure (which you can see with C<< $response->status_line >>, returning something like "404 Not Found").

=item *

A MIME content-type like "text/html", "image/gif", "application/xml", etc., which you can see with C<< $response->content_type >>

=item *

The actual content of the response, in C<< $response->decoded_content >>. If the response is HTML, that's where the HTML source will be; if it's a GIF, then C<< $response->decoded_content >> will be the binary GIF data.

=item *

And dozens of other convenient and more specific methods that are documented in the docs for L<HTTP::Response>, and its superclasses L<HTTP::Message> and L<HTTP::Headers>.

=back

=for comment

##########################################################################
=head2 Adding Other HTTP Request Headers

The most commonly used syntax for requests is C<< $response = $browser->get($url) >>, but in truth, you can add extra HTTP header lines to the request by adding a list of key-value pairs after the URL, like so:

$response = $browser->get( $url, $key1, $value1, $key2, $value2, ... );

For example, here's how to send some more Netscape-like headers, in case you're dealing with a site that would otherwise reject your request:

my @ns_headers = ( 'User-Agent' => 'Mozilla/4.76 [en] (Win98; U)', 'Accept' => 'image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*' );
'Accept-Charset' => 'iso-8859-1,*,utf-8',
'Accept-Language' => 'en-US',
);

...

$response = $browser->get($url, @ns_headers);

If you weren't reusing that array, you could just go ahead and do this:

$response = $browser->get($url,
'User-Agent' => 'Mozilla/4.76 [en] (Win98; U)',
'Accept' => 'image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*',
'Accept-Charset' => 'iso-8859-1,*,utf-8',
'Accept-Language' => 'en-US',
);

If you were only ever changing the 'User-Agent' line, you could just change
the $browser object's default line from "libwww-perl/5.65" (or the like)
to whatever you like, using the LWP::UserAgent $browser->agent method:

$browser->agent('Mozilla/4.76 [en] (Win98; U)');

=head2 Enabling Cookies

A default LWP::UserAgent object acts like a browser with its cookies
support turned off. There are various ways of turning it on, by setting
its $browser->cookie_jar attribute. A "cookie jar" is an object representing
a little database of all
the HTTP cookies that a browser can know about. It can correspond to a
file on disk (the way Netscape uses its F<cookies.txt> file), or it can
be just an in-memory object that starts out empty, and whose collection of
cookies will disappear once the program is finished running.

To give a browser an in-memory empty cookie jar, you set its $browser->cookie_jar
attribute like so:

$browser->cookie_jar({});

To give it a copy that will be read from a file on disk, and will be saved
to it when the program is finished running, set the $browser->cookie_jar attribute
like this:

use HTTP::Cookies;
$browser->cookie_jar( HTTP::Cookies->new(
   'file' => '/some/where/cookies.lwp',
   # where to read/write cookies
   'autosave' => 1,
   # save it to disk when done
));

That file will be an LWP-specific format. If you want to be access the
cookies in your Netscape cookies file, you can use the
HTTP::Cookies::Netscape class:

use HTTP::Cookies;
   # yes, loads HTTP::Cookies::Netscape too

$browser->cookie_jar( HTTP::Cookies::Netscape->new(
   'file' => 'c:/Program Files/Netscape/Users/DIR-NAME-HERE/cookies.txt',
   # where to read cookies
));

You could add an C<< 'autosave' => 1 >> line as further above, but at
time of writing, it's uncertain whether Netscape might discard some of
the cookies you could be writing back to disk.

=for comment
#***********************************************************************

=head2 Posting Form Data

Many HTML forms send data to their server using an HTTP POST request, which
you can send with this syntax:

$response = $browser->post( $url,
    [
        formkey1 => value1,
        formkey2 => value2,
        ...
    ],
);

Or if you need to send HTTP headers:
$response = $browser->post( $url,
    [ 'formkey1' => value1,
      'formkey2' => value2,
      ...
    ],
    [ 'headerkey1' => value1,
      'headerkey2' => value2,
    ]);
Some HTML forms convey their form data not by sending the data in an HTTP POST request, but by making a normal GET request with the data stuck on the end of the URL. For example, if you went to C<www.imdb.com> and ran a search on "Blade Runner", the URL you'd see in your browser window would be:

http://www.imdb.com/find?s=all&q=Blade+Runner

To run the same search with LWP, you'd use this idiom, which involves the URI class:

use URI;
my $url = URI->new( 'http://www.imdb.com/find' );  # makes an object representing the URL
$url->query_form(  # And here the form data pairs:
    'q' => 'Blade Runner',
    's' => 'all',
);

my $response = $browser->get($url);

See chapter 5 of I<Perl & LWP> for a longer discussion of HTML forms and of form data, and chapters 6 through 9 for a longer discussion of extracting data from HTML.

=head2 Absolutizing URLs

The URI class that we just mentioned above provides all sorts of methods for accessing and modifying parts of URLs (such as asking sort of URL it is with C<< $url->scheme >>, and asking what host it refers to with C<< $url->host >>, and so on, as described in L<the docs for the URI class|URI>). However, the methods of most immediate interest are the C<query_form> method seen above, and now the C<new_abs> method for taking a probably-relative URL string (like "./foo.html") and getting back an absolute URL (like "http://www.perl.com/stuff/foo.html"), as shown here:

use URI;
$abs = URI->new_abs($maybe_relative, $base);

For example, consider this program that matches URLs in the HTML list of new modules in CPAN:

use strict;
use warnings;
use LWP;
my $browser = LWP::UserAgent->new;

my $url = 'http://www.cpan.org/RECENT.html';
my $response = $browser->get($url);
die "Can't get $url -- ", $response->status_line
   unless $response->is_success;

my $html = $response->decoded_content;
while( $html =~ m/<A HREF="(.*?)"/g ) {
    print "$1
";
}

When run, it emits output that starts out something like this:

MIRRORING.FROM
RECENT
RECENT.html
authors/00whois.html
authors/01mailrc.txt.gz
authors/id/A/AA/AASSAD/CHECKSUMS
...

However, if you actually want to have those be absolute URLs, you
can use the URI module's C<new_abs> method, by changing the C<while>
loop to this:

while( $html =~ m/<A HREF="(.*?)"/g ) {
    print URI->new_abs( $1, $response->base ),"n";
}

(The C<< $response->base >> method from L<HTTP::Message|HTTP::Message>
is for returning what URL
should be used for resolving relative URLs -- it's usually just
the same as the URL that you requested.)

That program then emits nicely absolute URLs:

http://www.cpan.org/MIRRORING.FROM
http://www.cpan.org/RECENT
http://www.cpan.org/RECENT.html
http://www.cpan.org/authors/00whois.html
http://www.cpan.org/authors/01mailrc.txt.gz
http://www.cpan.org/authors/id/A/AA/AASSAD/CHECKSUMS
...

See chapter 4 of I<Perl & LWP> for a longer discussion of URI objects.
Of course, using a regexp to match hrefs is a bit simplistic, and for more robust programs, you'll probably want to use an HTML-parsing module like L<HTML::LinkExtor> or L<HTML::TokeParser> or even maybe L<HTML::TreeBuilder>.

=item *

C<< $browser->timeout(15); >>

This sets this browser object to give up on requests that don't answer within 15 seconds.

=item *

C<< $browser->protocols_allowed([ 'http', 'gopher' ]); >>

This sets this browser object to not speak any protocols other than HTTP and gopher. If it tries accessing any other kind of URL (like an "ftp:" or "mailto:" or "news:" URL), then it won't actually try connecting, but instead will immediately return an error code 500, with a message like "Access to 'ftp' URIs has been disabled".

=item *

C<< use LWP::ConnCache; $browser->conn_cache(LWP::ConnCache->new()); >>

This tells the browser object to try using the HTTP/1.1 "Keep-Alive" feature, which speeds up requests by reusing the same socket connection for multiple requests to the same server.
This changes how the browser object will identify itself in the default "User-Agent" line in its HTTP requests. By default, it'll send "libwww-perl/I<versionnumber>”, like "libwww-perl/5.65”. You can change that to something more descriptive like this:

$browser->agent( 'SomeName/3.14 (contact@robotplexus.int)' );

Or if need be, you can go in disguise, like this:

$browser->agent( 'Mozilla/4.0 (compatible; MSIE 5.12; Mac_PowerPC)' );

This tells this browser to obey redirection responses to POST requests (like most modern interactive browsers), even though the HTTP RFC says that should not normally be done.

For more options and information, see L<the full documentation for LWP::UserAgent|LWP::UserAgent>.

=head2 Writing Polite Robots

If you want to make sure that your LWP-based program respects F<robots.txt> files and doesn't make too many requests too fast, you can use the LWP::RobotUA class instead of the LWP::UserAgent class.

LWP::RobotUA class is just like LWP::UserAgent, and you can use it like so:

use LWP::RobotUA;
my $browser = LWP::RobotUA->new( 'YourSuperBot/1.34', 'you@yoursite.com');
# Your bot's name and your email address

my $response = $browser->get($url);

But HTTP::RobotUA adds these features:

=over

=item *

If the F<robots.txt> on C<$url>'s server forbids you from accessing C<$url>, then the C<$browser> object (assuming it's of class LWP::RobotUA) won't actually request it, but instead will give you back (in C<$response>) a 403 error with a message "Forbidden by robots.txt". That is, if you have this line:

```perl
die "$url -- ", $response->status_line, ",\nAborted"
  unless $response->is_success;
```

then the program would die with an error message like this:

```
http://whatever.site.int/pith/x.html -- 403 Forbidden by robots.txt
Aborted at whateverprogram.pl line 1234
```

=item *

If this C<$browser> object sees that the last time it talked to C<$url>'s server was too recently, then it will pause (via C<sleep>) to avoid making too many requests too often. How long it will pause for, is by default one minute -- but you can control it with the C<<

```perl
$browser->delay( I<minutes> ) >> attribute.
```

For example, this code:

```perl
$browser->delay( 7/60 );
```

...means that this browser will pause when it needs to avoid talking to any given server more than once every 7 seconds.

=back

For more options and information, see L<the full documentation for LWP::RobotUA[LWP::RobotUA]>.
Using Proxies

In some cases, you will want to (or will have to) use proxies for accessing certain sites and/or using certain protocols. This is most commonly the case when your LWP program is running (or could be running) on a machine that is behind a firewall.

To make a browser object use proxies that are defined in the usual environment variables (C<HTTP_PROXY>, etc.), just call the C<env_proxy> on a user-agent object before you go making any requests on it.

Specifically:

```perl
use LWP::UserAgent;
my $browser = LWP::UserAgent->new;

# And before you go making any requests:
$browser->env_proxy;
```

For more information on proxy parameters, see L<the LWP::UserAgent documentation|LWP::UserAgent>, specifically the C<proxy>, C<env_proxy>, and C<no_proxy> methods.

HTTP Authentication

Many web sites restrict access to documents by using "HTTP Authentication". This isn't just any form of "enter your password" restriction, but is a specific mechanism where the HTTP server sends the browser an HTTP code that says "That document is part of a protected 'realm', and you can access it only if you re-request it and add some special authorization headers to your request".

For example, the Unicode.org admins stop email-harvesting bots from harvesting the contents of their mailing list archives, by protecting them with HTTP Authentication, and then publicly stating the username and password (at C<http://www.unicode.org/mail-arch/>) -- namely username "unicode-ml" and password "unicode".

For example, consider this URL, which is part of the protected area of the web site:
http://www.unicode.org/mail-arch/unicode-ml/y2002-m08/0067.html

If you access that with a browser, you'll get a prompt like
"Enter username and password for 'Unicode-MailList-Archives' at server
'www.unicode.org'".

In LWP, if you just request that URL, like this:

```perl
use LWP;
my $browser = LWP::UserAgent->new;

my $url =
'http://www.unicode.org/mail-arch/unicode-ml/y2002-m08/0067.html';
my $response = $browser->get($url);
```

die "Error: ", $response->header('WWW-Authenticate') || 'Error accessing',
# ('WWW-Authenticate' is the realm-name)
"\n ", $response->status_line, "\n at $url\n Aborting"
unless $response->is_success;

Then you'll get this error:

```
Error: Basic realm="Unicode-MailList-Archives"
401 Authorization Required
at http://www.unicode.org/mail-arch/unicode-ml/y2002-m08/0067.html
Aborting at auth1.pl line 9.  [or wherever]
```

...because the C<$browser> doesn't know any the username and password
for that realm ("Unicode-MailList-Archives") at that host
("www.unicode.org"). The simplest way to let the browser know about this
is to use the C<credentials> method to let it know about a username and
password that it can try using for that realm at that host. The syntax is:

```perl
$browser->credentials(
    'servername:portnumber',
    'realm-name',
    'username' => 'password'
);
```

In most cases, the port number is 80, the default TCP/IP port for HTTP; and
you usually call the C<credentials> method before you make any requests.
For example:

```perl
$browser->credentials(
    'reports.mybazouki.com:80',
    'web_server_usage_reports',
    'plinky' => 'banjo123'
)`
So if we add the following to the program above, right after the `C<< $browser = LWP::UserAgent->new; >>` line...

```perl
$browser->credentials(  # add this to our $browser 's "key ring"
    'www.unicode.org:80',
    'Unicode-MailList-Archives',
    'unicode-ml' => 'unicode'
);
```

...then when we run it, the request succeeds, instead of causing the `C<diedie> to be called.

---

=head2 Accessing HTTPS URLs

When you access an HTTPS URL, it'll work for you just like an HTTP URL would -- if your LWP installation has HTTPS support (via an appropriate Secure Sockets Layer library). For example:

```perl
use LWP;
my $url = 'https://www.paypal.com/';   # Yes, HTTPS!
my $browser = LWP::UserAgent->new;
my $response = $browser->get($url);
die "Error at $url

", $response->status_line, " Aborting"
unless $response->is_success;
print "Whee, it worked!  I got that ",
    $response->content_type, " document!

";
```

If your LWP installation doesn't have HTTPS support set up, then the response will be unsuccessful, and you'll get this error message:

```perl
Error at https://www.paypal.com/
  501 Protocol scheme 'https' is not supported
Aborting at paypal.pl line 7.   [or whatever program and line]
```

If your LWP installation I<does> have HTTPS support installed, then the response should be successful, and you should be able to consult `C<$response>` just like with any normal HTTP response.

For information about installing HTTPS support for your LWP installation, see the helpful F<README.SSL> file that comes in the libwww-perl distribution.
Getting Large Documents

When you're requesting a large (or at least potentially large) document, a problem with the normal way of using the request methods (like `$_response = $browser->get($url)` ) is that the response object in memory will have to hold the whole document -- in memory. If the response is a thirty megabyte file, this is likely to be quite an imposition on this process's memory usage.

A notable alternative is to have LWP save the content to a file on disk, instead of saving it up in memory. This is the syntax to use:

```
$response = $ua->get($url,
    'content_file' => $filespec,
);
```

For example,

```
$response = $ua->get('http://search.cpan.org/',
    'content_file' => '/tmp/sco.html'
);
```

When you use this `:content_file` option, the `$response` will have all the normal header lines, but `$_response->content` will be empty.

Note that this `:content_file` option isn't supported under older versions of LWP, so you should consider adding `use LWP 5.66;` to check the LWP version, if you think your program might run on systems with older versions.

If you need to be compatible with older LWP versions, then use this syntax, which does the same thing:

```
use HTTP::Request::Common;
$response = $ua->request( GET($url), $filespec );
```

=for comment

*********************************************************************
SEE ALSO

Remember, this article is just the most rudimentary introduction to LWP -- to learn more about LWP and LWP-related tasks, you really must read from the following:

L<LWP::Simple> -- simple functions for getting/heading/mirroring URLs

L<LWP> -- overview of the libwww-perl modules

L<LWP::UserAgent> -- the class for objects that represent "virtual browsers"

L<HTTP::Response> -- the class for objects that represent the response to a LWP response, as in C<< $response = $browser->get(...) >>

L<HTTP::Message> and L<HTTP::Headers> -- classes that provide more methods to HTTP::Response.

L<URI> -- class for objects that represent absolute or relative URLs

L<URI::Escape> -- functions for URL-escaping and URL-unescaping strings (like turning "this & that" to and from "this%20%26%20that").

L<HTML::Entities> -- functions for HTML-escaping and HTML-unescaping strings (like turning "C. & E. Bronte" to and from "C. &amp; E. Bront&eacute;")

L<HTML::TokeParser> and L<HTML::TreeBuilder> -- classes for parsing HTML
L<HTML::LinkExtor> -- class for finding links in HTML documents


=head1 COPYRIGHT

Copyright 2002, Sean M. Burke. You can redistribute this document and/or modify it, but only under the same terms as Perl itself.

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

# End of Pod

Found in path(s):
* /opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/lwptut.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

LWP::UserAgent - Web user agent class

=head1 SYNOPTIS

require LWP::UserAgent;

my $ua = LWP::UserAgent->new;
$ua->timeout(10);
$ua->env_proxy;

my $response = $ua->get("http://search.cpan.org/");
if ($response->is_success) {
    print $response->decoded_content;  # or whatever
} else {
    die $response->status_line;
}

=head1 DESCRIPTION

The C<LWP::UserAgent> is a class implementing a web user agent. C<LWP::UserAgent> objects can be used to dispatch web requests.

In normal use the application creates an C<LWP::UserAgent> object, and then configures it with values for timeouts, proxies, name, etc. It then creates an instance of C<HTTP::Request> for the request that needs to be performed. This request is then passed to one of the request method the UserAgent, which dispatches it using the relevant protocol, and returns a C<HTTP::Response> object. There are convenience methods for sending the most common request types: get(), head(), post(), put() and delete(). When using these methods then the creation of the request object is hidden as shown in the synopsis above.

The basic approach of the library is to use HTTP style communication for all protocol schemes. This means that you will construct C<HTTP::Request> objects and receive C<HTTP::Response> objects even for non-HTTP resources like I<gopher> and I<ftp>. In order to achieve even more similarity to HTTP style communications, gopher menus and file directories are converted to HTML documents.

=head1 CONSTRUCTOR METHODS

The following constructor methods are available:

=over 4
=item $ua = LWP::UserAgent->new( %options )

This method constructs a new C<LWP::UserAgent> object and returns it. Key/value pair arguments may be provided to set up the initial state. The following options correspond to attribute methods described below:

<table>
<thead>
<tr>
<th>KEY</th>
<th>DEFAULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>agent</td>
<td>&quot;libwww-perl/#.###&quot;</td>
</tr>
<tr>
<td>from</td>
<td>undef</td>
</tr>
<tr>
<td>conn_cache</td>
<td>undef</td>
</tr>
<tr>
<td>cookie_jar</td>
<td>undef</td>
</tr>
</tbody>
</table>
default_headers: HTTP::Headers->new
local_address: undef
ssl_opts: { verify_hostname => 1 }
max_size: undef
max_redirect: 7
parse_head: 1
protocols_allowed: undef
protocols_forbidden: undef
requests_redirectable: ['GET', 'HEAD']
timeout: 180

The following additional options are also accepted: If the C<env_proxy> option is passed in with a TRUE value, then proxy settings are read from environment variables (see env_proxy() method below). If C<env_proxy> isn't provided the C<PERL::LWP_ENV_PROXY> environment variable controls if env_proxy() is called during initialization. If the C<keep_alive> option is passed in, then a C<LWP::ConnCache> is set up (see conn_cache() method below). The C<keep_alive> value is passed on as the C<total_capacity> for the connection cache.

=item $ua->clone

Returns a copy of the LWP::UserAgent object.

=back

=head1 ATTRIBUTES

The settings of the configuration attributes modify the behaviour of the C<LWP::UserAgent> when it dispatches requests. Most of these can also be initialized by options passed to the constructor method.

The following attribute methods are provided. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

=over

=item $ua->agent

=item $ua->agent( $product_id )

Get/set the product token that is used to identify the user agent on the network. The agent value is sent as the "User-Agent" header in the requests. The default is the string returned by the _agent() method (see below).

If the $product_id ends with space then the _agent() string is appended to it.
The user agent string should be one or more simple product identifiers with an optional version number separated by the "/" character.
Examples are:

```perl
$ua->agent('Checkbot/0.4 ' . $ua->_agent);
$ua->agent('Checkbot/0.4');  # same as above
$ua->agent('Mozilla/5.0');
$ua->agent('');              # don't identify
```

=item $ua->_agent

Returns the default agent identifier. This is a string of the form "libwww-perl/#.###", where "/.###" is substituted with the version number of this library.

=item $ua->from

=item $ua->from( $email_address )

Get/set the e-mail address for the human user who controls the requesting user agent. The address should be machine-usable, as defined in RFC 822. The C<from> value is send as the "From" header in the requests. Example:

```perl
$ua->from('gaas@cpan.org');
```

The default is to not send a "From" header. See the default_headers() method for the more general interface that allow any header to be defaulted.

=item $ua->cookie_jar

=item $ua->cookie_jar( $cookie_jar_obj )

Get/set the cookie jar object to use. The only requirement is that the cookie jar object must implement the extract_cookies($request) and add_cookie_header($response) methods. These methods will then be invoked by the user agent as requests are sent and responses are received. Normally this will be a C<HTTP::Cookies> object or some subclass.

The default is to have no cookie_jar, i.e. never automatically add "Cookie" headers to the requests.

Shortcut: If a reference to a plain hash is passed in as the $cookie_jar_object, then it is replaced with an instance of C<HTTP::Cookies> that is initialized based on the hash. This form also automatically loads the C<HTTP::Cookies> module. It means that:
$ua->cookie_jar({ file => "$ENV{HOME}/.cookies.txt" });

is really just a shortcut for:

require HTTP::Cookies;
$ua->cookie_jar(HTTP::Cookies->new(file => "$ENV{HOME}/.cookies.txt"));

=item $ua->default_headers

=item $ua->default_headers( $headers_obj )

Get/set the headers object that will provide default header values for any requests sent. By default this will be an empty C<HTTP::Headers> object.

=item $ua->default_header( $field )

=item $ua->default_header( $field => $value )

This is just a short-cut for $ua->default_headers->header( $field => $value ). Example:

$ua->default_header('Accept-Encoding' => scalar HTTP::Message::decodable());
$ua->default_header('Accept-Language' => "no, en");

=item $ua->conn_cache

=item $ua->conn_cache( $cache_obj )

Get/set the C<LWP::ConnCache> object to use. See L<LWP::ConnCache> for details.

=item $ua->credentials( $netloc, $realm )

=item $ua->credentials( $netloc, $realm, $uname, $pass )

Get/set the user name and password to be used for a realm.

The $netloc is a string of the form "<host>::<port>". The username and password will only be passed to this server. Example:

$ua->credentials("www.example.com:80", "Some Realm", "foo", "secret");

=item $ua->local_address

=item $ua->local_address( $address )
Get/set the local interface to bind to for network connections. The interface can be specified as a hostname or an IP address. This value is passed as the C<LocalAddr> argument to L<IO::Socket::INET>.

=item $ua->max_size

=item $ua->max_size( $bytes )

Get/set the size limit for response content. The default is C<undef>, which means that there is no limit. If the returned response content is only partial, because the size limit was exceeded, then a "Client-Aborted" header will be added to the response. The content might end up longer than C<max_size> as we abort once appending a chunk of data makes the length exceed the limit. The "Content-Length" header, if present, will indicate the length of the full content and will normally not be the same as C<< length($res->content) >>.

=item $ua->max_redirect

=item $ua->max_redirect( $n )

This reads or sets the object's limit of how many times it will obey redirection responses in a given request cycle.

By default, the value is 7. This means that if you call request() method and the response is a redirect elsewhere which is in turn a redirect, and so on seven times, then LWP gives up after that seventh request.

=item $ua->parse_head

=item $ua->parse_head( $boolean )

Get/set a value indicating whether we should initialize response headers from the E<lt>head> section of HTML documents. The default is TRUE. Do not turn this off, unless you know what you are doing.

=item $ua->protocols_allowed

=item $ua->protocols_allowed( \@protocols )

This reads (or sets) this user agent's list of protocols that the request methods will exclusively allow. The protocol names are case insensitive.

For example: C<$ua-E<gt>protocols_allowed( [ 'http', 'https' ] );> means that this user agent will I<allow only> those protocols, and attempts to use this user agent to access URLs with any other
schemes (like "ftp://...") will result in a 500 error.
To delete the list, call: C<$ua-E<gt>protocols_allowed(undef)>
By default, an object has neither a C<protocols_allowed> list, nor a
C<protocols_forbidden> list.
Note that having a C<protocols_allowed> list causes any
C<protocols_forbidden> list to be ignored.
=item $ua->protocols_forbidden
=item $ua->protocols_forbidden( \@protocols )
This reads (or sets) this user agent's list of protocols that the
request method will I<not> allow. The protocol names are case
insensitive.
For example: C<$ua-E<gt>protocols_forbidden( [ 'file', 'mailto'] );>
means that this user agent will I<not> allow those protocols, and
attempts to use this user agent to access URLs with those schemes
will result in a 500 error.
To delete the list, call: C<$ua-E<gt>protocols_forbidden(undef)>
=item $ua->requests_redirectable
=item $ua->requests_redirectable( \@requests )
This reads or sets the object's list of request names that
C<$ua-E<gt>redirect_ok(...)> will allow redirection for. By
default, this is C<['GET', 'HEAD']>, as per RFC 2616. To
change to include 'POST', consider:
push @{ $ua->requests_redirectable }, 'POST';
=item $ua->show_progress
=item $ua->show_progress( $boolean )
Get/set a value indicating whether a progress bar should be displayed
on on the terminal as requests are processed. The default is FALSE.
=item $ua->timeout
=item $ua->timeout( $secs )
Get/set the timeout value in seconds. The default timeout() value is

Open Source Used In Tetration 3.5.1 22635


180 seconds, i.e. 3 minutes.

The requests is aborted if no activity on the connection to the server is observed for \texttt{C<timeout>} seconds. This means that the time it takes for the complete transaction and the request() method to actually return might be longer.

\begin{verbatim}
=item $ua->ssl_opts
=item $ua->ssl_opts( $key )
=item $ua->ssl_opts( $key => $value )
\end{verbatim}

Get/set the options for SSL connections. Without argument return the list of options keys currently set. With a single argument return the current value for the given option. With 2 arguments set the option value and return the old. Setting an option to the value \texttt{C<undef>} removes this option.

The options that LWP relates to are:

\begin{verbatim}
=over
=item C<verify_hostname> => $bool
\end{verbatim}

When TRUE LWP will for secure protocol schemes ensure it connects to servers that have a valid certificate matching the expected hostname. If FALSE no checks are made and you can't be sure that you communicate with the expected peer. The no checks behaviour was the default for libwww-perl-5.837 and earlier releases.

This option is initialized from the \texttt{L<PERL_LWP_SSL_VERIFY_HOSTNAME>} environment variable. If this environment variable isn't set; then \texttt{C<verify_hostname>} defaults to 1.

\begin{verbatim}
=item C<SSL_ca_file> => $path
\end{verbatim}

The path to a file containing Certificate Authority certificates. A default setting for this option is provided by checking the environment variables \texttt{C<PERL_LWP_SSL_CA_FILE>} and \texttt{C<HTTPS_CA_FILE>} in order.

\begin{verbatim}
=item C<SSL_ca_path> => $path
\end{verbatim}

The path to a directory containing files containing Certificate Authority certificates. A default setting for this option is provided by checking the environment variables \texttt{C<PERL_LWP_SSL_CA_PATH>} and \texttt{C<HTTPS_CA_DIR>} in order.
Other options can be set and are processed directly by the SSL Socket implementation in use. See L<IO::Socket::SSL> or L<Net::SSL> for details.

The libwww-perl core no longer bundles protocol plugins for SSL. You will need to install L<LWP::Protocol::https> separately to enable support for processing https-URLs.

=back

=head2 Proxy attributes

The following methods set up when requests should be passed via a proxy server.

=over

=item $ua->proxy(@schemes, $proxy_url)

=item $ua->proxy($scheme, $proxy_url)

Set/retrieve proxy URL for a scheme:

$ua->proxy(['http', 'ftp'], 'http://proxy.sn.no:8001/');
$ua->proxy('gopher', 'http://proxy.sn.no:8001/');

The first form specifies that the URL is to be used for proxying of access methods listed in the list in the first method argument, i.e. 'http' and 'ftp'.

The second form shows a shorthand form for specifying proxy URL for a single access scheme.

=item $ua->no_proxy( $domain, ... )

Do not proxy requests to the given domains. Calling no_proxy without any domains clears the list of domains. Eg:

$ua->no_proxy('localhost', 'example.com');

=item $ua->env_proxy

Load proxy settings from *_proxy environment variables. You might specify proxies like this (sh-syntax):

gopher_proxy=http://proxy.my.place/
wais_proxy=http://proxy.my.place/
no_proxy="localhost,example.com"
export gopher_proxy wais_proxy no_proxy
csh or tcsh users should use the \texttt{setenv} command to define these environment variables.

On systems with case insensitive environment variables there exists a name clash between the CGI environment variables and the \texttt{HTTP_PROXY} environment variable normally picked up by \texttt{env_proxy()}. Because of this \texttt{HTTP_PROXY} is not honored for CGI scripts. The \texttt{CGI_HTTP_PROXY} environment variable can be used instead.

=head2 Handlers

Handlers are code that injected at various phases during the processing of requests. The following methods are provided to manage the active handlers:

=item $ua->add_handler( $phase => \&cb, %matchspec )

Add handler to be invoked in the given processing phase. For how to specify \%matchspec see \texttt{L<HTTP::Config/"Matching">}.

The possible values \$phase and the corresponding callback signatures are:

=item request_preprepare => sub { my($request, $ua, $h) = @_; ... }

The handler is called before the \texttt{request_prepare} and other standard initialization of of the request. This can be used to set up headers and attributes that the \texttt{request_prepare} handler depends on. Proxy initialization should take place here; but in general don't register handlers for this phase.

=item request_prepare => sub { my($request, $ua, $h) = @_; ... }

The handler is called before the request is sent and can modify the request any way it see fit. This can for instance be used to add certain headers to specific requests.

The method can assign a new request object to \$_[0] to replace the request that is sent fully.

The return value from the callback is ignored. If an exception is raised it will abort the request and make the request method return a
"400 Bad request" response.

=item request_send => sub { my($request, $ua, $h) = @_; ... }

This handler gets a chance of handling requests before they're sent to the protocol handlers. It should return an HTTP::Response object if it wishes to terminate the processing; otherwise it should return nothing.

The C<response_header> and C<response_data> handlers will not be invoked for this response, but the C<response_done> will be.

=item response_header => sub { my($response, $ua, $h) = @_; ... }

This handler is called right after the response headers have been received, but before any content data. The handler might set up handlers for data and might croak to abort the request.

The handler might set the $response->{default_add_content} value to control if any received data should be added to the response object directly. This will initially be false if the $ua->request() method was called with a $content_file or $content_cb argument; otherwise true.

=item response_data => sub { my($response, $ua, $h, $data) = @_; ... }

This handler is called for each chunk of data received for the response. The handler might croak to abort the request.

This handler needs to return a TRUE value to be called again for subsequent chunks for the same request.

=item response_done => sub { my($response, $ua, $h) = @_; ... }

The handler is called after the response has been fully received, but before any redirect handling is attempted. The handler can be used to extract information or modify the response.

=item response_redirect => sub { my($response, $ua, $h) = @_; ... }

The handler is called in $ua->request after C<response_done>. If the handler returns an HTTP::Request object we'll start over with processing this request instead.

=back

=item $ua->remove_handler( undef, %matchspec )

=item $ua->remove_handler( $phase, %matchspec )
Remove handlers that match the given \%matchspec. If \$phase is not provided remove handlers from all phases.

Be careful as calling this function with \%matchspec that is not not specific enough can remove handlers not owned by you. It's probably better to use the set_my_handler() method instead.

The removed handlers are returned.

=item $ua->set_my_handler( $phase, $cb, \%matchspec )

Set handlers private to the executing subroutine. Works by defaulting an C<owner> field to the \%matchspec that holds the name of the called subroutine. You might pass an explicit C<owner> to override this.

If $cb is passed as C<undef>, remove the handler.

=item $ua->get_my_handler( $phase, \%matchspec )

=item $ua->get_my_handler( $phase, \%matchspec, $init )

Will retrieve the matching handler as hash ref.

If C<$init> is passed passed as a TRUE value, create and add the handler if it's not found. If $init is a subroutine reference, then it's called with the created handler hash as argument. This sub might populate the hash with extra fields; especially the callback. If $init is a hash reference, merge the hashes.

=item $ua->handlers( $phase, $request )

=item $ua->handlers( $phase, $response )

Returns the handlers that apply to the given request or response at the given processing phase.

=back

=head1 REQUEST METHODS

The methods described in this section are used to dispatch requests via the user agent. The following request methods are provided:

=over

=item $ua->get( $url )

=item $ua->get( $url , $field_name => $value, ... )

=back
This method will dispatch a C<GET> request on the given $url. Further arguments can be given to initialize the headers of the request. These are given as separate name/value pairs. The return value is a response object. See L<HTTP::Response> for a description of the interface it provides.

There will still be a response object returned when LWP can't connect to the server specified in the URL or when other failures in protocol handlers occur. These internal responses use the standard HTTP status codes, so the responses can't be differentiated by testing the response status code alone. Error responses that LWP generates internally will have the "Client-Warning" header set to the value "Internal response". If you need to differentiate these internal responses from responses that a remote server actually generates, you need to test this header value.

Fields names that start with ":" are special. These will not initialize headers of the request but will determine how the response content is treated. The following special field names are recognized:

- :content_file => $filename
- :content_cb => \&callback
- :read_size_hint => $bytes

If a $filename is provided with the C<:content_file> option, then the response content will be saved here instead of in the response object. If a callback is provided with the C<:content_cb> option then this function will be called for each chunk of the response content as it is received from the server. If neither of these options are given, then the response content will accumulate in the response object itself. This might not be suitable for very large response bodies. Only one of C<:content_file> or C<:content_cb> can be specified. The content of unsuccessful responses will always accumulate in the response object itself, regardless of the C<:content_file> or C<:content_cb> options passed in.

The C<:read_size_hint> option is passed to the protocol module which will try to read data from the server in chunks of this size. A smaller value for the C<:read_size_hint> will result in a higher number of callback invocations.

The callback function is called with 3 arguments: a chunk of data, a reference to the response object, and a reference to the protocol object. The callback can abort the request by invoking die(). The exception message will show up as the "X-Died" header field in the response returned by the get() function.

=item $ua->head( $url )
This method will dispatch a C<HEAD> request on the given $url. Otherwise it works like the get() method described above.

This method will dispatch a C<POST> request on the given $url, with %form or @form providing the key/value pairs for the fill-in form content. Additional headers and content options are the same as for the get() method.

This method will use the POST() function from C<HTTP::Request::Common> to build the request. See L<HTTP::Request::Common> for a details on how to pass form content and other advanced features.

This method will dispatch a C<PUT> request on the given $url, with %form or @form providing the key/value pairs for the fill-in form content. Additional headers and content options are the same as for the get() method.

This method will use the PUT() function from C<HTTP::Request::Common> to build the request. See L<HTTP::Request::Common> for a details on how to pass form content and other advanced features.
=item $ua->delete( $url )

=item $ua->delete( $url, $field_name => $value, ... )

This method will dispatch a C<DELETE> request on the given $url. Additional headers and content options are the same as for the get() method.

This method will use the DELETE() function from C<HTTP::Request::Common> to build the request. See L<HTTP::Request::Common> for a details on how to pass form content and other advanced features.

=item $ua->mirror( $url, $filename )

This method will get the document identified by $url and store it in file called $filename. If the file already exists, then the request will contain an "If-Modified-Since" header matching the modification time of the file. If the document on the server has not changed since this time, then nothing happens. If the document has been updated, it will be downloaded again. The modification time of the file will be forced to match that of the server.

The return value is the the response object.

=item $ua->request( $request )

=item $ua->request( $request, $content_file )

=item $ua->request( $request, $content_cb )

=item $ua->request( $request, $content_cb, $read_size_hint )

This method will dispatch the given $request object. Normally this will be an instance of the C<HTTP::Request> class, but any object with a similar interface will do. The return value is a response object. See L<HTTP::Request> and L<HTTP::Response> for a description of the interface provided by these classes.

The request() method will process redirects and authentication responses transparently. This means that it may actually send several simple requests via the simple_request() method described below.

The request methods described above; get(), head(), post() and mirror(), will all dispatch the request they build via this method. They are convenience methods that simply hides the creation of the request object for you.

The $content_file, $content_cb and $read_size_hint all correspond to options described with the get() method above.
You are allowed to use a CODE reference as C<content> in the request object passed in. The C<content> function should return the content when called. The content can be returned in chunks. The content function will be invoked repeatedly until it return an empty string to signal that there is no more content.

=item $ua->simple_request( $request )

=item $ua->simple_request( $request, $content_file )

=item $ua->simple_request( $request, $content_cb )

=item $ua->simple_request( $request, $content_cb, $read_size_hint )

This method dispatches a single request and returns the response received. Arguments are the same as for request() described above.

The difference from request() is that simple_request() will not try to handle redirects or authentication responses. The request() method will in fact invoke this method for each simple request it sends.

=item $ua->is_online

Tries to determine if you have access to the Internet. Returns TRUE if the built-in heuristics determine that the user agent is able to access the Internet (over HTTP). See also L<LWP::Online>.

=item $ua->is_protocol_supported( $scheme )

You can use this method to test whether this user agent object supports the specified C<scheme>. (The C<scheme> might be a string (like 'http' or 'ftp') or it might be an URI object reference.)

Whether a scheme is supported, is determined by the user agent's C<protocols_allowed> or C<protocols_forbidden> lists (if any), and by the capabilities of LWP. I.e., this will return TRUE only if LWP supports this protocol I<and> it's permitted for this particular object.

=back

=head2 Callback methods

The following methods will be invoked as requests are processed. These methods are documented here because subclasses of C<LWP::UserAgent> might want to override their behaviour.
=item $ua-&gt;prepare_request( $request )

This method is invoked by simple_request(). Its task is to modify the given $request object by setting up various headers based on the attributes of the user agent. The return value should normally be the $request object passed in. If a different request object is returned it will be the one actually processed.

The headers affected by the base implementation are; "User-Agent", "From", "Range" and "Cookie".

=item $ua-&gt;redirect_ok( $prospective_request, $response )

This method is called by request() before it tries to follow a redirection to the request in $response. This should return a TRUE value if this redirection is permissible. The $prospective_request will be the request to be sent if this method returns TRUE.

The base implementation will return FALSE unless the method is in the object's C<requests_redirectable> list, FALSE if the proposed redirection is to a "file://..." URL, and TRUE otherwise.

=item $ua-&gt;get_basic_credentials( $realm, $uri, $isproxy )

This is called by request() to retrieve credentials for documents protected by Basic or Digest Authentication. The arguments passed in is the $realm provided by the server, the $uri requested and a boolean flag to indicate if this is authentication against a proxy server.

The method should return a username and password. It should return an empty list to abort the authentication resolution attempt. Subclasses can override this method to prompt the user for the information. An example of this can be found in C<lwp-request> program distributed with this library.

The base implementation simply checks a set of pre-stored member variables, set up with the credentials() method.

=item $ua-&gt;progress( $status, $request_or_response )

This is called frequently as the response is received regardless of how the content is processed. The method is called with $status "begin" at the start of processing the request and with $state "end" before the request method returns. In between these $status will be the fraction of the response currently received or the string "tick"
if the fraction can't be calculated.

When $status is "begin" the second argument is the request object, otherwise it is the response object.

=back

=head1 SEE ALSO

See L<LWP> for a complete overview of libwww-perl5. See L<lwpcook> and the scripts F<lwp-request> and F<lwp-download> for examples of usage.

See L<HTTP::Request> and L<HTTP::Response> for a description of the message objects dispatched and received. See L<HTTP::Request::Common> and L<HTML::Form> for other ways to build request objects.

See L<WWW::Mechanize> and L<WWW::Search> for examples of more specialized user agents based on C<LWP::UserAgent>.

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Found in path(s):
* /opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/lib/LWP/UserAgent.pm

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=head1 NAME

lwpcook - The libwww-perl cookbook

=head1 DESCRIPTION

This document contain some examples that show typical usage of the libwww-perl library. You should consult the documentation for the
individual modules for more detail.

All examples should be runnable programs. You can, in most cases, test the code sections by piping the program text directly to perl.

=head1 GET

It is very easy to use this library to just fetch documents from the net. The LWP::Simple module provides the get() function that return the document specified by its URL argument:

use LWP::Simple;
$doc = get 'http://search.cpan.org/dist/libwww-perl/';

or, as a perl one-liner using the getprint() function:

perl -MLWP::Simple -e 'getprint "http://search.cpan.org/dist/libwww-perl/"'

or, how about fetching the latest perl by running this command:


You will probably first want to find a CPAN site closer to you by running something like the following command:

perl -MLWP::Simple -e 'getprint "http://www.cpan.org/SITES.html"'

Enough of this simple stuff! The LWP object oriented interface gives you more control over the request sent to the server. Using this interface you have full control over headers sent and how you want to handle the response returned.

use LWP::UserAgent;
$ua = LWP::UserAgent->new;
$ua->agent("$0/0.1 " . $ua->agent);
# $ua->agent("Mozilla/8.0") # pretend we are very capable browser

$req = HTTP::Request->new(
    GET => 'http://search.cpan.org/dist/libwww-perl/');
$req->header('Accept' => 'text/html');

# send request
$res = $ua->request($req);
# check the outcome
if ($res->is_success) {
    print $res->decoded_content;
} else {
    print "Error: ", $res->status_line . "\n";
}

The lwp-request program (alias GET) that is distributed with the library can also be used to fetch documents from WWW servers.

=head1 HEAD

If you just want to check if a document is present (i.e. the URL is valid) try to run code that looks like this:

use LWP::Simple;

if (head($url)) {
    # ok document exists
}

The head() function really returns a list of meta-information about the document. The first three values of the list returned are the document type, the size of the document, and the age of the document.

More control over the request or access to all header values returned require that you use the object oriented interface described for GET above. Just s/GET/HEAD/g.

=head1 POST

There is no simple procedural interface for posting data to a WWW server. You must use the object oriented interface for this. The most common POST operation is to access a WWW form application:

use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my $req = HTTP::Request->new(
    POST => 'http://rt.cpan.org/Public/Dist/Display.html');
$req->content_type('application/x-www-form-urlencoded');
$req->content('Status=Active&Name=libwww-perl');

my $res = $ua->request($req);
Lazy people use the HTTP::Request::Common module to set up a suitable POST request message (it handles all the escaping issues) and has a suitable default for the content_type:

```perl
use HTTP::Request::Common qw(POST);
use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my $req = POST 'http://rt.cpan.org/Public/Dist/Display.html',
    [ Status =&gt; 'Active', Name =&gt; 'libwww-perl' ];

print $ua-&gt;request($req)-&gt;as_string;
```

The lwp-request program (alias POST) that is distributed with the library can also be used for posting data.

=head1 PROXIES

Some sites use proxies to go through fire wall machines, or just as cache in order to improve performance. Proxies can also be used for accessing resources through protocols not supported directly (or supported badly :-) by the libwww-perl library.

You should initialize your proxy setting before you start sending requests:

```perl
use LWP::UserAgent;
$ua = LWP::UserAgent-&gt;new;
$ua-&gt;env_proxy; # initialize from environment variables
# or
$ua-&gt;proxy(ftp =&gt; 'http://proxy.myorg.com');
$ua-&gt;proxy(wais =&gt; 'http://proxy.myorg.com');
$ua-&gt;no_proxy(qw(no se fi));

my $req = HTTP::Request-&gt;new(GET =&gt; 'wais://xxx.com/');
print $ua-&gt;request($req)-&gt;as_string;
```

The LWP::Simple interface will call env_proxy() for you automatically. Applications that use the $ua-&gt;env_proxy() method will normally not use the $ua-&gt;proxy() and $ua-&gt;no_proxy() methods.

Some proxies also require that you send it a username/password in order to let requests through. You should be able to add the required header, with something like this:
use LWP::UserAgent;

$ua = LWP::UserAgent->new;
$ua->proxy(['http', 'ftp'] => 'http://username:password@proxy.myorg.com');

$req = HTTP::Request->new(GET, "http://www.perl.com");

$res = $ua->request($req);
print $res->decoded_content if $res->is_success;

Replace C<proxy.myorg.com>, C<username> and C<password> with something suitable for your site.

=head1 ACCESS TO PROTECTED DOCUMENTS

Documents protected by basic authorization can easily be accessed like this:

use LWP::UserAgent;
$ua = LWP::UserAgent->new;
$req = HTTP::Request->new(GET => 'http://www.linpro.no/secret/');
$req->authorization_basic('aas', 'mypassword');
print $ua->request($req)->as_string;

The other alternative is to provide a subclass of I<LWP::UserAgent> that overrides the get_basic_credentials() method. Study the I<lwp-request> program for an example of this.

=head1 COOKIES

Some sites like to play games with cookies. By default LWP ignores cookies provided by the servers it visits. LWP will collect cookies and respond to cookie requests if you set up a cookie jar.

use LWP::UserAgent;
use HTTP::Cookies;

$ua = LWP::UserAgent->new;
$ua->cookie_jar(HTTP::Cookies->new(file => "lwpcookies.txt", autosave => 1));

# and then send requests just as you used to do
$res = $ua->request(HTTP::Request->new(GET => "http://no.yahoo.com/"));
print $res->status_line, "\n";
As you visit sites that send you cookies to keep, then the file F<lwpcookies.txt"> will grow.

=head1 HTTPS

URLs with https scheme are accessed in exactly the same way as with http scheme, provided that an SSL interface module for LWP has been properly installed (see the F<README.SSL> file found in the libwww-perl distribution for more details). If no SSL interface is installed for LWP to use, then you will get "501 Protocol scheme 'https' is not supported" errors when accessing such URLs.

Here's an example of fetching and printing a WWW page using SSL:

use LWP::UserAgent;

my $ua = LWP::UserAgent->new;
my $req = HTTP::Request->new(GET => 'https://www.helsinki.fi/');
my $res = $ua->request($req);
if ($res->is_success) {
    print $res->as_string;
} else {
    print "Failed: ", $res->status_line, "\n";
}

=head1 MIRRORING

If you want to mirror documents from a WWW server, then try to run code similar to this at regular intervals:

use LWP::Simple;

%mirrors = (
    'http://www.sn.no/' => 'sn.html',
    'http://www.perl.com/' => 'perl.html',
    'http://search.cpan.org/distlibwww-perl/' => 'lwp.html',
    'gopher://gopher.sn.no/' => 'gopher.html',
);

while (($url, $localfile) = each(%mirrors)) {
    mirror($url, $localfile);
}

Or, as a perl one-liner:

perl -MLWP::Simple -e 'mirror("http://www.perl.com/", "perl.html")';
If the document you want to fetch is too large to be kept in memory, then you have two alternatives. You can instruct the library to write the document content to a file (second $ua->request() argument is a file name):

```perl
use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my $req = HTTP::Request->new(GET =>
   'http://www.cpan.org/authors/Gisle_Aas/libwww-perl-6.02.tar.gz');
$res = $ua->request($req, "libwww-perl.tar.gz");
if ($res->is_success) {
    print "ok\n";
} else {
    print $res->status_line, "\n";
}
```

Or you can process the document as it arrives (second $ua->request() argument is a code reference):

```perl
use LWP::UserAgent;
$ua = LWP::UserAgent->new;
$URL = 'ftp://ftp.unit.no/pub/rfc/rfc-index.txt';

my $expected_length;
my $bytes_received = 0;
my $res = $ua->request(HTTP::Request->new(GET => $URL),
   sub {
      my($chunk, $res) = @_;
      $bytes_received += length($chunk);
      unless (defined $expected_length) {
         $expected_length = $res->content_length || 0;
      }
      if ($expected_length) {
         printf STDERR "%d%% - ",
            100 * $bytes_received / $expected_length;
      }
      print STDERR "$bytes_received bytes received\n";
   };
```
# XXX Should really do something with the chunk itself
# print Schunk;
});
print $res->status_line, "\n";

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Found in path(s):
  */opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/lwpcook.pod
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  */opt/cola/permits/1138400117_1614282182.08/0/libwww-perl-6-05-orig-1-tar-gz/libwww-perl-6.05/META.yml

1.2270 rpcbind 0.2.1-2ubuntu2.2

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1.2271 colord 1.3.4 1.el7

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1.2273 watch-dog 5.13 12.el7

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<signature of Ty Coon>, 1 April 1989
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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.
This package contains the mechanism for executing the right scripts
in the right order at bootup/shutdown time, and when changing runlevels.
It works through managing symlinks in /etc/rc?.d

This package is built from the `sysvinit' source package. Please
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the upstream sources of the sysvinit package. Debian-specific files
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1.2277 libsub-identify-perl 0.04-1build3

1.2277.1 Available under license:

No license file was found, but licenses were detected in source scan.

=head1 NAME

Sub::Identify - Retrieve names of code references

=head1 SYNOPSIS

use Sub::Identify ':all';
my $subname = sub_name( $some_coderef );
my $p = stash_name( $some_coderef );
my $fullyQualifiedName = sub_fullname( $some_coderef );
defined $subname
and print "this coderef points to sub $subname in package $p\n";

=head1 DESCRIPTION

C<Sub::Identify> allows you to retrieve the real name of code references. For this, it uses perl's introspection mechanism, provided by the C<B> module.

It provides four functions: C<sub_name> returns the name of the subroutine (or C<__ANON__> if it's an anonymous code reference), C<stash_name> returns its package, and C<sub_fullname> returns the concatenation of the two.

The fourth function, C<get_code_info>, returns a list of two elements, the package and the subroutine name (in case of you want both and are worried by the speed.)

In case of subroutine aliasing, those functions always return the original name.

=head1 LICENSE
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the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1135383210_1613511894.35/0/libsub-identify-perl-0-04-orig-1-tar-gz/Sub-Identify-0.04/lib/Sub/Identify.pm
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/

ppport.h -- Perl/Pollution/Portability Version 3.13_03

Automatically created by Devel::PPPort running under perl 5.011000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

.SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.13_03

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
Open Source Used In Tetration 3.5.1  22695

--compat-version=version  provide compatibility with Perl version
--cplusplus             accept C++ comments
--quiet                 don't output anything except fatal errors
--nodiag                don't show diagnostics
--nohints               don't show hints
--nochanges             don't suggest changes
--nofilter              don't filter input files
--strip                 strip all script and doc functionality from ppport.h
--list-provided         list provided API
--list-unsupported      list unsupported API
--api-info=name         show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip
Strip all script and documentation functionality from ppmport.h. This reduces the size of ppmport.h dramatically and may be useful if you want to include ppmport.h in smaller modules without increasing their distribution size too much.

The stripped ppmport.h will have a C--unstrip option that allows you to undo the stripping, but only if an appropriate CDevel::PPPort module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by ppmport.h. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by ppmport.h and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppmport.h --list-provided

to see which API elements are provided by ppmport.h.

=item *

You should avoid using deprecated parts of the API. For example, using...
global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C/#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```
If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/. /

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{$RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.13_03;
my %opt = (
    quiet  => 0,
    diag   => 1,
    hints  => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
    version => 0,
);

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t\]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\.*';
my $cce = '*!/\';
my $rcs = quotemeta $ccs;
my $rce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options\n"
;
}

if (defined $opt{version}) {
    print "This is $0 $VERSION\n"
;
    exit 0;
}

usage() if defined $opt{help};
strip() if defined $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: '$opt{compat-version}'\n";
    
}
my %API = map { /^\(w+)\(([^\[
]*)\)([^\[
]*)\)((w*)$/ ? ( $1 => { ($2    ? ( base    => $2 ) : ()  ),  ($3    ? ( todo    => $3 ) : ()  ),  (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()  ),  (index($4, 'p') >= 0 ? ( provided => 1 ) : ()  ),  (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()  )  )  )  : die "invalid spec: $_"  } qw(  AvFILLp|5.004050||p  AvFILL||  CLASS||n  CX_CURPAD_SAVE||n  CX_CURPAD_SV||n  CopFILEAV|5.006000||p  CopFILEGV_set|5.006000||p  CopFILEGV|5.006000||p  CopFILE_set|5.006000||p  CopFILE|5.006000||p  CopSTASHPV_set|5.006000||p  CopSTASHPV|5.006000||p  CopSTASH_eq|5.006000||p  CopSTASH_set|5.006000||p  CopSTASH|5.006000||p  CopyD|5.009002||p  Copy||  CvPADLIST||n  CvSTASH||n  CvWEAKOUTSIDE||n  DEFSV|5.004050||p  END_EXTERN_C|5.005000||p  ENTER||n  ERRSV|5.004050||p  EXTEND||n  EXTERN_C|5.005000||p  F0convert||n  FREETMPS||n  GIMME_V|5.004000|n
GIMME||n
GROK_NUMERIC_RADIX|5.007002|p
G_ARRAY||
G_DISCARD||
G_EVAL||
G_NOARGS||
G_SCALAR||
G_VOID|5.004000|
GetVars||
GvSV||
Gv_AMupdate||
HEf_SVKEY|5.004000|
HeHASH|5.004000|
HeKEY|5.004000|
HeKLEN|5.004000|
HePV|5.004000|
HeSVKEY_force|5.004000|
HeSVKEY_set|5.004000|
HeSVKEY|5.004000|
HeUTF8|5.011000|
HeVAL|5.004000|
HvNAME||
INT2PTR|5.006000|p
IN_LOCALE_COMPILETIME|5.007002|p
IN_LOCALE_RUNTIME|5.007002|p
IN_LOCALE|5.007002|p
IN_PERL_COMPILETIME|5.008001|p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002|p
IS_NUMBER_INFINITY|5.007002|p
IS_NUMBER_IN_UV|5.007002|p
IS_NUMBER_NAN|5.007003|p
IS_NUMBER_NEG|5.007002|p
IS_NUMBER_NOT_INT|5.007002|p
IVSIZE|5.006000|p
IVTYPE|5.006000|p
IVdf|5.006000|p
LEAVE||
LVRET||
MARK||
MULTICALL|5.011000|
MY_CXT_CLONE|5.009002|p
MY_CXT_INIT|5.007003|p
MY_CXT|5.007003|p
MoveD|5.009002|p
Move||
NOOP|5.005000|p
NUM2PTR|5.006000|p
NVTYPE|5.006000|p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.011000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utl8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL ULONG_MAX|5.004000||p
PERL ULONG_MIN|5.004000||p
PERL UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000|p
PERL_UQUAD_MIN|5.004000|p
PERL_USE_GCC_BRACE_GROUPS|5.009004|p
PERL_USHORT_MAX|5.004000|p
PERL_USHORT_MIN|5.004000|p
PERL_VERSION|5.006000|p
PL_DBsignal|5.005000|p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000|p
PL_compiling|5.004050|p
PL_copline|5.011000|p
PL_curcopp|5.004050|p
PL_curstash|5.004050|p
PL_debstash|5.004050|p
PL_defgv|5.004050|p
PL_diehook|5.004050|p
PL(dirty|5.004050|p
PL_dowarn|||pn
PL_errovgv|5.004050|p
PL_expect|5.011000|p
PL_hexdigit|5.005000|p
PL_hints|5.005000|p
PL_last_in_gv|||n
PL_laststatvai|5.005000|p
PL_modglobal|5.005000|n
PL_na|5.004050|p
PL_no_modify|5.006000|p
PL_ofs_sv|||n
PL_perl_destruct_level|5.004050|p
PL_perldb|5.004050|p
PL_ppadd|5.006000|p
PL_rsfp_filters|5.004050|p
PL_rsfp|5.004050|p
PLppelin
PL_signals|5.008001|p
PL_stack_base|5.004050|p
PL_stack_sp|5.004050|p
PL_statcache|5.005000|p
PL_stdingv|5.004050|p
PL_sv_arenaroot|5.004050|p
PL_sv_no|5.004050|p
PL_sv_undef|5.004050|p
PL_sv_yes|5.004050|p
PL_tainted|5.004050|p
PL_tainting|5.004050|p
POP_MULTICALL|5.011000|
POPi||n
POPl||n
POPn||n
POPPbyteX||5.007001||n
POPPx|5.005030||n
POPP||n
POPs||n
PTR21V|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK||
PUSH_MULTICALL|5.011000|
PUSHi||
PUSHmortal|5.009002||p
PUSHn||
PUSHp||
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PerlIO_clearerr|5.007003|
PerlIO_close|5.007003|
PerlIO_context_layers|5.009004|
PerlIO_eof|5.007003|
PerlIO_error|5.007003|
PerlIO_fileno|5.007003|
PerlIO_fill|5.007003|
PerlIO_flush|5.007003|
PerlIO_get_base|5.007003|
PerlIO_get_bufsiz|5.007003|
PerlIO_get_cnt|5.007003|
PerlIO_get_ptptr|5.007003|
PerlIO_read|5.007003|
PerlIO_seek|5.007003|
PerlIO_set_cnt|5.007003|
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PerlIO_setlinebuf|5.007003|
PerlIO_stderr|5.007003|
PerlIO_stdin|5.007003|
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PerlIO_tell|5.007003|
PerlIO_unread|5.007003|
PerlIO_write|5.007003|
Perl_signbit|5.009005||n
PoisonFree|5.009004||p
PoisonNew|5.009004||p
PoisonWith|5.009004||p
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SV_SMAGIC[5.009003]\p
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SVf[5.006000]\p
SVf_IV\p
SVf_NV\p
SVf_PVAV\p
SVf_PVCV\p
SVf_PVHV\p
SVf_PVMG\p
SVf_PV\p
Safefree\p
Slab_Alloc\p
Slab_Free\p
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StructCopy\p
SvCUR_set\p
SvCUR\p
SvEND\p
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SvIOK_only_UV|5.006000|
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SvIOK_on||
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SvIVx||
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SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
SvNOKp||
SvNOK||
SvNVX||
SvNV_set||
SvNVx||
SvNV||
SvOK||
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SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
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SvPVX_mutable|5.009003||p
SvPVX||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags|5.007002||p
SvPV_force_mutable|5.009003||p
SvPV_force_nolen|5.009003||p
SvPV_force_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force|||p
SvPV_mutable|5.009003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvPV_nomg|5.007002||p
SvPV_set|||p
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbyte_exp_force|5.006000|
SvPVbyte_exp|5.006000|
SvPVbyte|5.006000||p
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
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SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVx|||
SvPV|||
SvREFCNT_dec|||p
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_void_NN|5.009004||p
SvREFCNT_inc_simple_void|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_void_NN|5.009004||p
SvREFCNT_inc_void|5.009004||p
SvREFCNT_inc|||p
SvREFCNT|||
SvROK_off|||p
SvROK_on|||p
SvROK|||
SvRV_set|5.009003||p
SvRV|||
SvRXOK|5.009005|
SvRX|5.009005|
SvSETMAGIC|||
SvSHARE|5.009003||p
SvSHARE|5.007003|
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SvSTASH|||
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cr_textfilter
create_eval_scope
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custom_op_name

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cv_ckproto
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cv_const_sv
cv_dump
cv_undef
cx_dump
cx_dup
cxinc
dAXMARK
dAX
dITEMS
dMARK
dMULTICALL
dMY_CXT_SV
dMY_CXT
dNOOP
dORIGMARK
dSP
dTHR
dTHXR
dTHXa
dTHXoa
dTHX
dUNDERBAR
dVAR
dXCTP
dXSARGS
dXSI32
dXSTAR
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deb_nocontext
deb_stack_all
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gv_fetchmeth[]
gv_fetchpvn_flags[5.009002]
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gv_name_set[5.009004]
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gv_stashpv[]
gv_stashsv[]
he_dup[]
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hfreeentries[]
hsplit[]
hv_assert[5.011000]
hv_auxinit[]
hv_backreferences_p[]
hv_clear_placeholders[5.009001]
hv_clear[]
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hv_copy_hints_hv[]
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hv_delete_common[]
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hv_delete[]
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hv_fetchs[5.009003][p]
hv_fetch[]
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hv_iterinit[]
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isLOWER||
isSPACE||
isUPPER||
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is_gv_magical||
is_handle_constructor||
is_list_assignment||
is_lvalue_sub|5.007001|
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is_uni_alnumc_le|5.006000|
is_uni_alnumc|5.006000|
is_uni_alnum|5.006000|
is_uni_alpha_le|5.006000|
is_uni_alpha|5.006000|
is_uni_ascit_le|5.006000|
is_uni_ascii|5.006000|
is_uni_cntrl_le|5.006000|
is_uni_cntrl|5.006000|
is_uni_digit_le|5.006000|
is_uni_digit|5.006000|
is_uni_graph_le|5.006000|
is_uni_graph|5.006000|
is_uni_idfirst_le|5.006000|
is_uni_idfirst|5.006000|
is_uni_lower_le|5.006000|
is_uni_lower|5.006000|
is_uni_print_le|5.006000|
is_uni_print|5.006000|
is_uni_punct_le|5.006000|
is_uni_punct|5.006000|
is_uni_space_le|5.006000|
is_uni_space|5.006000|
is_uni_upper_le|5.006000|
is_uni_upper|5.006000|
is_uni_xdigit_le|5.006000|
is_uni_xdigit|5.006000|
is_utf8_alnumc|5.006000|
is_utf8_alnum|5.006000|
is_utf8_alpha|5.006000|
is_utf8_asci|5.006000|
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is_utf8_char|5.006000|
is_utf8_cntrl|5.006000|
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is_utf8_digit|5.006000|
is_utf8_graph|5.006000|
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magic_existspack||| 
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magic_freeovrld|||
magic_getarylen|||
magic_getdefelem|||
magic_getnkeys|||
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magic_getpos|||
magic_getsig|||
magic_getsubstr|||
magic_gettaint|||
magic_getuvar|||
magic_getvec|||
magic_get|||
magic_killbackrefs|||
magic_len|||
magic_methcall|||
magic_methpack|||
magic_nextpack|||
magic_regdata_cnt|||
magic_regdatum_get|||
magic_regdatum_set|||
magic_scalarpack|||
magic_set_all_env|||
magic_setamagic|||
magic_setarylen|||
magic_setcollxfrm|||
magic_setdbline|||
magic_setdefelem|||
magic_setenv|||
magic_sethint|||
magic_setisa|||
magic_setmglob|||
magic_setnkeys|||
magic_setpack|||
magic_setpos|||
magic_setregexp|||
magic_setsig|||
magic_setsubstr|||
magic_settaint|||
magic_setupf8|||
magic_setuvar|||
magic_setvec|||
magic_set|||
magic_sizepack|||
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my_betoh32
my_betoh64
my_betohi
my_betohl
my_betohs
my_bzero
my_chsize
my_clearenv
my_cxt_index
my_cxt_init
my_dirfd
my_exit_jump
my_exit
my_failure_exit
my fflush_all
my fork
my_htobe16
my_htobe32
my_htobe64
my_htobei
my_htobel
my_htobes
my_htole16
my_htole32
my_htole64
my_htolei
my_htolel
my_htoles
my_htonl
my_kid
my_letoh16
my_letoh32
my_letoh64
my_letohi
my_letohl
my_letohs
my_lstat
my_memcmp
my_memset
my_ntohl
my_pclose
my_popen_list
my_popen
my_setenv
my_snprintf
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newRVInc[5.004000]|p
newRVnoinc[5.004000]|p
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newSTATEOP||
newSUB||
newSVOP||
newSVREF||
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newSViv||
newSVnv||
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newXS[5.006000]
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new_hel||
new_logop||
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new_stackinfo[5.005000]
new_version[5.009000]
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nextargv||
ninstr||
nextchar||
ninstr||
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no_fh_allowed||
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oopsCV||
oopsHV||
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op_const_sv||
op_dump||5.006000|
op_free||
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op_getmad||
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op_refcnt_unlock||5.009002|
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pMY_CTX||5.007003|p
pTHX_{5.006000|p
pTHX||5.006000|p
pack_WARN||5.007003|p
pack_cat||5.007003|
pack_rec||
package||
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pad_add_name||
pad_alloc||
pad_block_start||
pad_check_dup||
pad_compname_type||
pad_findlex||
pad_findmy||
pad_fixup_inner_anons||
pad_free||
pad_leavemy||
pad_new||
pad_peg||n
pad_push||
pad_reset||
pad_setsv||
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pad_tidy
pad_undef
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parse_unicode_opts
parser_dup
parser_free
path_is_absolute
peep
pending_Slabs_to_ro
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perl_alloc
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perl_clone
perl_construct
perl_destruct 5.007003
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pidgone
pm_description
pmflag
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);
\$h->{\_} = "$1
";
}
}
else { undef \$hint }
}

\$hint = [\$1, [split /,?s+/, \$2]]
if m{"s*srcs\s+(Hint|Warning):s+\(\w+\(?\w+\w+\)?\)s*\$}
if (\$define) {
 if (\$define->[1] =~ /\$/) {
 \$define->[1] = \$_;
 }
 else {
 if (exists \$API{\$define->[0]} && \$define->[1] !~ /^DPPP_\)/) {
 my @n = find_api($\$define->[1]);
 push @{$\$depends{\$define->[0]}}, \$n if @n
 }
 undef $define;
 }
}

\$define = [\$1, \$2] if m{"s*#s*define\s+(\w+)(?\([^)]*\)\)?s+(.*);}

if (\$function) {
 if (/^)/) { 
 if (exists \$API{\$function->[0]}) {
 my @n = find_api($\$function->[1]);
 push @{$\$depends{\$function->[0]}}, \$n if @n
 }
 undef \$function;
 }
 else {
 \$function->[1] .= \$_;
 }
}

\$function = [\$1, ""] if m{"DPPP_\(my_\(w+\))\};

\$replace     = \$1 if m{"s*srcs\s+\(Replace:\s+(d+)\s+\)s+\$rcce\s*\$};
\$replace{\$2} = \$1 if \$replace and m{"s*\#s*define\s+(\w+)(?!([^]))?s+(\w+))\};
\$replace{\$2} = \$1 if m{"s*\#s*define\s+(\w+)(?!([^]))?s+(\w+).*$rcce\s+\(Replace\s+)s+\$rcce\s*\$};
\$replace{\$1} = \$2 if m{"s*rcce\s+\(\w+\) with \(\w+\)s+\$rcce\s*\$};

if (m{"s*rcce\s+(\w+)s+\$depends\s+\(\w+\)(\w+\(s*\(\w+\))s+\$rcce\s*\$}) {
 push @{$\$depends{\$1}}, map { s/s//g; \$_ } split /, \$2;
}
$need{$1} = 1 if m{:^\s*if\s+defined\(\$\1\)?\$_GLOBAL\?)\s*;}

for (values %depends) {
  my %s;
  $s = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base.\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo.\n";
      print "Support needs to be explicitly requested by NEED_$f if exists $need{$f};
      print "Depends on: ", join(‘’, @{$depends{$f}}), ":\n" if exists $depends{$f};
      print "\nShints[$f]" if exists $shints{$f};
      print "\nWARNING:\nwarnings[$f]" if exists $warnings{$f};
      $info++;
    }
    print "\nNo portability information available.\n" unless $info;
    $count++;
  }
  $count or print "Found no API matching $opt{'api-info'}.\n";
  exit 0;
}

if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $shints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? ['join(‘’, @flags).'] : "
  }

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print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}

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@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;

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if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;

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for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{(Perl_$func\s*(\s*)?\(\(\s*aTHX_\)?\)\(.*\)\)*\(.*\))}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' ) . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
            else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s/\bPerl_$func\(.*\)\(\s*aTHX_\)?\s*/$func\1\2/g);
            }
        }
    }

    for $func (sort keys %{file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
    }

    for $func (sort keys %{file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
            }
            else {

diag("Uses $func");
}

$warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}), ", even with 'ppport'un";
    $warnings++;}
  }

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};
if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : ";
        unless (exists $file{"needed_${type}"}[$func]) {
            if ($type eq 'global') {
                diag("Files [@ {global{needs}}[\$func]] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        } else {
            diag("File has $func, removing the need");
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "\n";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include \"$ppport\"");
        $pp .= qq(#include "$ppport\n")}
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/.*?/$1$pp/m)) {
            $pp = "\n";
            $file{changes}++;
        } else {
            if ($file{has_inc_ppport}) {
                diag("No need to include \"$ppport\"");
                $file{changes} += ($c =~ s/^(?=.*Q$ppportE)\s*$/$1$pp/m)) {
                    $pp = "\n";
                    $file{changes}++;
                } else {
                    diag("File has $func, removing the need");
                    $file{changes} += ($c =~ s/^(?=.*Q$ppportE)\s*$/$1$pp/m)) {
                        $pp = "\n";
                        $file{changes}++;
                    }
                }
            }

            # put back in our C comments
            my $ix;
            my $cppc = 0;
            my @ccom = @{$file{ccom}};
            for $ix (0 .. $#ccom) {

            }

        }
    }
}
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rcc$six$rcce/$cc$sccom[$ix] $ccce/;
} else {
    $c =~ s/$rcc$six$rcce/$ccom[$ix]/;
}
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';  
my $warn = $warnings ? ($warnings warning$s) : ';
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of $filename");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of $filename' with changes to $newfile");
                print F $c;
                close F;
            } else {
                error("Cannot open $newfile for writing: !");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, "$opt{patch}" ) {
                    $patch_opened = 1;
                } else {
                    error("Cannot open $opt{patch}' for writing: "$!");
                }
            }
            elsif (exists $opt{patch}) {
                unless ($patch_opened) {
                    if (open PATCH, "$opt{patch}" ) {
                        $patch_opened = 1;
                    } else {
                        error("Cannot open $opt{patch}' for writing: "$!");
                    }
                } else {
                    error("Cannot open $opt{patch}' for writing: "$!");
                }
            } else {
                delete $opt{patch};
                $opt{changes} = 1;
            goto fallback;  
        }
    }
}
mydiff(*PATCH, $filename, $c);
else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }
}
if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_;    
    my $tmp = 'dppptemp';    
    my $suf = 'aaa';    
    my $diff = "";    
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}

sub rec_depend {

my($func, $seen) = @_;  
return () unless exists $depends{$func};  
$seen = {%{$seen}||{}};  
return () if $seen->{$func}++;  
my %s;  
grep !{$s{$_}++} map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};  
}

sub parse_version  
{  
my $ver = shift;  

if ($ver =~ /^\d+\.\d+\.\d+$/) {  
    return ($1, $2, $3);  
}  
elseif ($ver !~ /^\d+\-[\d_]+$/) {  
    die "cannot parse version '$ver\n";  
}  

$ver =~ s/_//g;  
$ver =~ s/$/000000/;  
my($r,$v,$s) = $ver =~ /\d+\.\d+\d+$/;  

$v = int $v;  
$s = int $s;  

if ($r < 5 || ($r == 5 && $v < 6)) {  
    if ($s % 10) {  
        die "cannot parse version '$ver\n";  
    }  
    return ($r, $v, $s);  
}  

sub format_version  
{  
my $ver = shift;  

$ver =~ s/$/000000/;  
my($r,$v,$s) = $ver =~ /\d+\.\d+\d+$/;  

$v = int $v;  
$s = int $s;  

if ($r < 5 || ($r == 5 && $v < 6)) {  
    if ($s % 10) {  
        
    }  
    return ($r, $v, $s);  
}
die "invalid version '$ver'\n";
}  
$s /= 10;

$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** \n", @_, "\n";
}

sub error
{
print "*** ERROR: \n", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
    $warn =~ s!^!*** !mg;
    print "*** ERROR: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{func} && !$given_hints{func}++) {
    my $hint = $hints{func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---
", $hint;
}
$rv;
}

sub usage {
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+/$^X $0/;
    $usage =~ s/\([A-Z]\)<(\[^>]+)>/$M{$1}$2$M{$1}/g;

    print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

exit 2;
}

sub strip {
    my $self = do { local(@ARGV,$/)=($0); <> }
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (!@ARGV && !$ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort }; 
    \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if (!$Devel::PPPort::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPort $VERSION.\n";
        "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n"
        "Please install a newer version, or --unstrip will not work.\n"
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
}
    print <<END;
Sorry, but this is a stripped version of \$0.
END;
To be able to use its original script and doc functionality, please try to regenerate this file using:

```
\$^X \$0 --unstrip
END
```

```
/my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[\[^*]*\]*\+\*[?:]ccs[^*]*\]*\+\*/ | /[^\r\n\]*)
| ( "[^"\[^"\]*\]*")
| ( ^\n\[^[^\[^\]*\]/*\]*)
| (\$HS+) }{ defined $2 ? '' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!";
print OUT "$pl$c
";
exit 0;
}
__DATA__
*/

Found in path(s):
* /opt/cola/permits/1135383210_1613511894.35/0/libsub-identify-perl-0-04-orig-1-tar-gz/Sub-Identify-0.04/ppport.h
No license file was found, but licenses were detected in source scan.
license: perl

Found in path(s):
* /opt/cola/permits/1135383210_1613511894.35/0/libsub-identify-perl-0-04-orig-1-tar-gz/Sub-Identify-0.04/META.yml

1.2278 opentsdb 2.3.0
1.2278.1 Available under license:

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Also add information on how to contact you by electronic and paper
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your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
Open Source Used In Tetration 3.5.1 22795

been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
Mike Frysinger  
Sent: Monday, October 01, 2007 8:15 PM  
To: cracklib-devel@li...  
Subject: [Cracklib-devel] cracklib license  
>=20  
looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
libraries under  
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
-mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33  
Attachments: Message as HTML  
On Monday 01 October 2007, Neulinger, Nathan wrote:  
> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didn't notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
aplications are also GPL-2 which imo is just wrong. it isn't the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46  
Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20  
------------------------------------------------------------
On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
> point,
> it was enough to just get it consistent and documented as to what
> it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.

> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.

> -mike

---

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@g...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
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> > > I am sympathetic. Guys, what do you reckon?
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> >
> > My apologies for not chiming in in anything resembling a reasonable
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> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
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> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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>
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> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
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> >>
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> > > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.  

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um... 
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
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> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of library to dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

-Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
On Monday 01 October 2007, Neulinger, Nathan wrote:

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-Re: [Cracklib-devel] cracklib license

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small
bit of
> additional code, so whatever licensing y'all come up with is fine
by me.

I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it’s sinful, it’s more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
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> > by me.
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> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.
In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
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The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

--------

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ips.cs.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
  for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
  for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.2280 psutil 1.2.1-1ubuntu2

1.2280.1 Available under license:

This package was debianized by Sandro Tosi <morph@debian.org> on Fri, 08 May 2009 23:49:16 +0200.

It was downloaded from https://pypi.python.org/pypi/psutil

Upstream Authors:

Giampaolo Rodola, Dave Daeschler, Jay Loden <psutil-dev@googlegroups.com>

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1.2281 libxv 1.0.11 1.el7
1.2281.1 Available under license:

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1.2282 pciutils 3.5.1-3.el7
1.2282.1 Available under license :
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1.2283 mergo 0.3.8

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import: ../../../../fossene/db/schema/thing.yml

fields:
1.2284 e2fsprogs 1.42.9 13.el7

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
trivial database library - private includes

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) "echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*.$(BSD_LIB)
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Theodore Ts'o
23-June-2007

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.2285 eclipse-core-jobs 3.6.0.v20140424-0053
1.2285.1 Available under license :

No license file was found, but licenses were detected in source scan.

BIRT Runtime

What is it?

---------
BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF. BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer. BIRT Engine is a report engine which generates report from defined report and related data source. BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics. You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

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You can find the manual, samples and other source from http://www.eclipse.org/birt.
Running the BIRT Engine in Console

In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign

xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by \xxx.rptdesign

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Redistributed Content

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JTidy R7

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Thanks for using BIRT.

BIRT Team
<http://www.eclipse.org/birt>

Found in path(s):
* /opt/cola/permits/1138400598_1614282163.08/0/org-eclipse-core-jobs-3-6-0-v20140424-0053-sources-3-jar/runtime_readme.txt

1.2286 libexif 0.6.21-1ubuntu1
1.2286.1 Available under license :
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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Any executables containing that work also fall under Section 6,
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copy of the library already present on the user’s computer system,
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* /opt/cola/permits/1000715208_1614362208.0/ical4j-1.0.2-test-sources-jar/net/fortuna/ical4j/model/parameter/PartStatTest.java
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* /opt/cola/permits/1000715208_1614362208.0/ical4j-1.0.2-test-sources-jar/net/fortuna/ical4j/model/DateListTest.java
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* /opt/cola/permits/1000715208_1614362208.0/ical4j-1.0.2-test-sources-jar/net/fortuna/ical4j/model/parameter/FbTypeTest.java
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* /opt/cola/permits/1000715208_1614362208.0/ical4j-1.0.2-test-sources-jar/net/fortuna/ical4j/model/property/LastModifiedTest.java
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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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enc/cp949.c
enc/emacs_mule.c
enc/encdb.c
enc/euc_ip.c
enc/euc_kr.c
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enc/gbk.c
enc/iso_8859_1.c
enc/iso_8859_10.c
enc/iso_8859_11.c
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random.c

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A C-program for MT19937, with initialization improved 2002/2/10. Coded by Takuji Nishimura and Makoto Matsumoto. This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
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1.2301 proxytoys 1.0

1.2302 python-inotify 0.9.4-4.el7
1.2302.1 Available under license :

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1.2303 kerberos 1.10.3-65.el6

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cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
```
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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@code{src/lib/gssapi}, including the following files:

@smallexample
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userrk.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample

and the initial implementation of incremental propagation, including
the following new or changed files:

@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
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lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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Go support for Protocol Buffers - Google's data interchange format

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1.2310 zkclient 0.10

1.2311 cglib 3.3.0

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abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.'"
built_requires:
File::Temp: 0.15
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
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The `mod:` `_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knu rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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1.2326 perl-termreadkey 2.30-20.el7

1.2327 jetty-util 9.2.15.v20160210

1.2328 python 2.6.6 66.el6_8

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for
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1.2329 commons-dbcp Nightly-201207091001

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Upstream-Name: commons-dbcp2
Source: https://github.com/apache/commons-dbcp

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1.2330 netbsd-resolv 4.9.4

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 *
 * This file is part of the uIP TCP/IP stack.
 *
 * $Id: resolv.c,v 1.5 2006/06/11 21:46:37 adam Exp $
 *
 */

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L<perl>, L<Net::DNS>, L<Net::DNS::Domain>, RFC1035, RFC2535, RFC3597, RFC4034

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=head1 NAME

Net::DNS::RR::AAAA - DNS AAAA resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS IPv6 Address (AAAA) resource records.

=head1 METHODS

=head2 address

print "address = ", $rr->address, ":n";

Returns the RR's address field.

=head1 BUGS

The C<string> method returns only the preferred method of address representation ("x:x:x:x:x:x:x:", as documented in RFC 1884, Section 2.2, Para 1).

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L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1886 Section 2, RFC 1884 Sections 2.2 & 2.4.4

=cut

Found in path(s):
=head1 NAME

Net::DNS::RR::KX - DNS KX resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Key Exchanger (KX) resource record (RFC 2230).

This class inhertes most of its functionality directly from the MX RR.

=head1 METHODS

=head2 preference

print "preference = ", $rr->preference, "\n";

Returns the preference for this mail exchange.

=head2 exchange

print "exchange = ", $rr->exchange, "\n";

Returns name of this mail exchange.

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RFC2230

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=head1 NAME

Net::DNS::RR::NIMLOC - DNS NIMLOC resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Nimrod Locator (NIMLOC) resource records.

=head1 METHODS

=head2 rdlength

    print "rdlength = ", $rr->rdlength, "\n";

Returns the length of the record's data section.

=head2 rdata

    $rdata = $rr->rdata;

Returns the record's data section as binary data.

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=head1 NAME

Net::DNS::RR::SRV - DNS SRV resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Service (SRV) resource records.

=head1 METHODS

=head2 priority

    print "priority = ", $rr->priority, "\n";

Returns the priority for this target host.

=head2 weight

    print "weight = ", $rr->weight, "\n";

Returns the weight for this target host.

=head2 port

    print "port = ", $rr->port, "\n";

Returns the port on this target host for the service.

=head2 target

    print "target = ", $rr->target, "\n";

Returns the target host.

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=head1 BUGS

Coding strategy is intended to avoid creating unnecessary argument lists and stack frames. This improves efficiency at the expense of code readability.

Platform specific character coding features are conditionally compiled into the code.

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=head1 NAME

Net::DNS::RR::Unknown - Unknown RR record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for dealing with unknown RR types (RFC3597)

=head1 METHODS

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=head1 NAME

Net::DNS::RR::AFSDB - DNS AFSDB resource record
SYNOPSIS

Class for DNS AFS Data Base (AFSDB) resource records.

DESCRIPTION

METHODS

subtype

Returns the RR's subtype field. Use of the subtype field is documented in RFC 1183.

hostname

Returns the RR's hostname field. See RFC 1183.

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SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1183 Section 1

NAME

Net::DNS::Resolver::Recurse - Perform recursive dns lookups
=head1 SYNOPSIS

use Net::DNS::Resolver::Recurse;
my $res = Net::DNS::Resolver::Recurse->new;

=head1 DESCRIPTION

This module is a sub class of Net::DNS::Resolver. So the methods for Net::DNS::Resolver still work for this module as well. There are just a couple methods added:

=head2 hints

Initialize the hint servers. Recursive queries need a starting name server to work off of. This method takes a list of IP addresses to use as the starting servers. These name servers should be authoritative for the root (.) zone.

$res->hints(@ips);

If no hints are passed, the default nameserver is asked for the hints. Normally these IPs can be obtained from the following location:

ftp://ftp.internic.net/domain/named.root

=head2 recursion_callback

This method is takes a code reference, which is then invoked each time a packet is received during the recursive lookup. For example to emulate dig's C<-trace> function:

$res->recursion_callback(sub {
    my $packet = shift;

    $-print for $packet->additional;

    printf(";; Received %d bytes from %s\n\n",
        $packet->answersize,
        $packet->answerfrom
    );
};

=head2 query_dorecursion

This method is much like the normal query() method except it disables the recurse flag in the packet and explicitly performs the recursion.
$packet = $res->query_dorecursion( "www.netscape.com.", "A" );

=head1 IPv6 transport

If the appropriate IPv6 libraries are installed the recursive resolver will randomly choose between IPv6 and IPv4 addresses of the nameservers it encounters during recursion.

If you want to force IPv4 transport use the force_v4() method. Also see the IPv6 transport notes in the Net::DNS::Resolver documentation.

=head1 AUTHOR

Rob Brown, bbb@cpan.org

=head1 SEE ALSO

L<Net::DNS::Resolver>,

=head1 COPYRIGHT

Copyright (c) 2002, Rob Brown. All rights reserved. Portions Copyright (c) 2005, Olaf M Kolkman.

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$Id: Recurse.pm 932 2011-10-26 12:40:48Z willem $

cut

Example lookup process:

[root@box root]# dig +trace www.rob.com.au.
;:: global options: printcmd
; . 507343 IN NS C.ROOT-SERVERS.NET.
; . 507343 IN NS D.ROOT-SERVERS.NET.
; . 507343 IN NS E.ROOT-SERVERS.NET.
; . 507343 IN NS F.ROOT-SERVERS.NET.
; . 507343 IN NS G.ROOT-SERVERS.NET.
; . 507343 IN NS H.ROOT-SERVERS.NET.
; . 507343 IN NS I.ROOT-SERVERS.NET.
; . 507343 IN NS J.ROOT-SERVERS.NET.
; . 507343 IN NS K.ROOT-SERVERS.NET.
; . 507343 IN NS L.ROOT-SERVERS.NET.
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.                       507343  IN      NS      M.ROOT-SERVERS.NET.
.                       507343  IN      NS      A.ROOT-SERVERS.NET.
.                       507343  IN      NS      B.ROOT-SERVERS.NET.
;; Received 436 bytes from 127.0.0.1#53(127.0.0.1) in 9 ms
;; But these should be hard coded as the hints

;; Ask H.ROOT-SERVERS.NET gave:
au.                     172800  IN      NS      NS2.BERKELEY.EDU.
au.                     172800  IN      NS      NS1.BERKELEY.EDU.
au.                     172800  IN      NS      NS.UU.NET.
au.                     172800  IN      NS      BOX2.AUNIC.NET.
au.                     172800  IN      NS      SEC1.APNIC.NET.
au.                     172800  IN      NS      SEC3.APNIC.NET.
;; Received 300 bytes from 128.63.2.53#53(H.ROOT-SERVERS.NET) in 322 ms
;; A little closer than before

;; Ask NS2.BERKELEY.EDU gave:
com.au.                 259200  IN      NS      ns4.ausregistry.net.
com.au.                 259200  IN      NS      dns1.telstra.net.
com.au.                 259200  IN      NS      au2ld.CSIRO.au.
com.au.                 259200  IN      NS      audns01.syd.optus.net.
com.au.                 259200  IN      NS      ns.ripe.net.
com.au.                 259200  IN      NS      ns1.ausregistry.net.
com.au.                 259200  IN      NS      ns2.ausregistry.net.
com.au.                 259200  IN      NS      ns3.ausregistry.net.
;; Received 387 bytes from 128.32.206.12#53(NS2.BERKELEY.EDU) in 10312 ms
;; A little closer than before

;; Ask ns4.ausregistry.net gave:
com.au.                 259200  IN      NS      ns1.ausregistry.net.
com.au.                 259200  IN      NS      ns2.ausregistry.net.
com.au.                 259200  IN      NS      ns3.ausregistry.net.
com.au.                 259200  IN      NS      ns4.ausregistry.net.
com.au.                 259200  IN      NS      dns1.telstra.net.
com.au.                 259200  IN      NS      au2ld.CSIRO.au.
com.au.                 259200  IN      NS      audns01.syd.optus.net.
;; Received 259 bytes from 137.39.1.3#53(ns4.ausregistry.net) in 606 ms
;; Uh... yeah... I already knew this
;; from what NS2.BERKELEY.EDU told me.
;; ns4.ausregistry.net must have brain damage

;; Ask ns1.ausregistry.net gave:
rob.com.au.             86400  IN      NS      sy-dns02.tmns.net.au.
rob.com.au.             86400  IN      NS      sy-dns01.tmns.net.au.
;; Received 87 bytes from 203.18.56.41#53(ns1.ausregistry.net) in 372 ms
 ::: Ah, much better. Something more useful.

 ::: Ask sy-dns02.tmns.net.au gave:
 www.rob.com.au. 7200 IN A 139.134.5.123
 rob.com.au. 7200 IN NS sy-dns01.tmns.net.au.
 rob.com.au. 7200 IN NS sy-dns02.tmns.net.au.

 ::: Received 135 bytes from 139.134.2.18#53(sy-dns02.tmns.net.au) in 525 ms
 ::: FINALLY, THE ANSWER!

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Resolver/Recurse.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::MINFO - DNS MINFO resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Mailbox Information (MINFO) resource records.

=head1 METHODS

=head2 rmailbx

  print "rmailbx = ", $rr->rmailbx, "\n";

Returns the RR's responsible mailbox field. See RFC 1035.

=head2 emailbx

  print "emailbx = ", $rr->emailbx, "\n";

Returns the RR's error mailbox field.

=head1 COPYRIGHT

Copyright (c) 1997-2002 Michael Fuhr.

Portions Copyright (c) 2002-2004 Chris Reinhardt.

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### NAME

mresolv - Perform multiple DNS lookups in parallel

### SYNOPSIS

```
B<mresolv> S<[ B<-d> ]> S<[ B<-n> I<number> ]> S<[ B<-t> I<timeout> ]>
S<[ I<filename>... ]>
```

### DESCRIPTION

B<mresolv> performs multiple DNS lookups in parallel. Names to query are read from the list of files given on the command line, or from the standard input.

### OPTIONS

#### B<-d>

Turn on debugging output.

#### B<-n> I<number>

Set the number of queries to have outstanding at any time.

#### B<-t> I<timeout>

Set the timeout in seconds. If no replies are received for this amount of time, all outstanding queries will be flushed and new names will be read from the input stream.
=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl(1)>, L<axfr>, L<check_soa>, L<check_zone>, L<mx>, L<perldig>, L<Net::DNS>

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/demo/mresolv
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::X25 - DNS X25 resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS X25 resource records.

=head1 METHODS

=head2 psdn

    print "psdn = ", $rr->psdn, "\n";

Returns the PSDN address.

=head1 COPYRIGHT

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Portions Copyright (c) 2002-2004 Chris Reinhardt.

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=head1 SEE ALSO
=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/X25.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::MB - DNS MB resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Mailbox (MB) resource records.

=head1 METHODS

=head2 madname

    print "madname = ", $rr->madname, "\n";

Returns the domain name of the host which has the specified mailbox.

=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.3

=cut
Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/MB.pm
No license file was found, but licenses were detected in source scan.

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=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Mailbox.pm
No license file was found, but licenses were detected in source scan.

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/APL.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::Resolver::Base - Common Resolver Class

=head1 SYNOPSIS

use base qw/Net::DNS::Resolver::Base/;

=head1 DESCRIPTION

This class is the common base class for the different platform sub-classes of L<Net::DNS::Resolver|Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver|Net::DNS::Resolver> for all your resolving needs.

=head1 COPYRIGHT

Copyright (c) 1997-2002 Michael Fuhr.
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Portions Copyright (c) 2005 Olaf Kolkman <olaf@net-dns.org>
Portions Copyright (c) 2006 Dick Franks.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Resolver/Base.pm
No license file was found, but licenses were detected in source scan.

=head1 METHODS

=head2 new

my $ns = new Net::DNS::Nameserver(
LocalAddr=> "10.1.2.3",
LocalPort=> "5353",
ReplyHandler=> \&reply_handler,
my $ns = new Net::DNS::Nameserver(
    LocalAddr=> ['::1', '127.0.0.1'],
    LocalPort=> "5353",
    ReplyHandler=> \&reply_handler,
    Verbose=> 1,
    Truncate=> 0
);
NXDOMAIN Non-existent domain (name doesn't exist)
NOTIMP Not implemented
REFUSED Query refused

For advanced usage it may also contain a headermask containing an
hashref with the settings for the C<aa>, C<ra>, and C<ad>
header bits. The argument is of the form
C<< \{ ad => 1, aa => 0, ra => 1 \} >>.

See RFC 1035 and the IANA dns-parameters file for more information:

http://www.isi.edu/in-notes/iana/assignments/dns-parameters

The nameserver will listen for both UDP and TCP connections. On
Unix-like systems, the program will probably have to run as root
to listen on the default port, 53. A non-privileged user should
be able to listen on ports 1024 and higher.

Packet Truncation is new functionality for
$Net::DNS::Nameserver::VERSION>830 and uses the
Net::DNS::Packet::truncate method with a size determined by the
advertised EDNS0 size in the query, or 512 if EDNS0 is not advertised
in the query. Only UDP replies are truncated. If you want to do packet
runcation yourself you should set Truncate to 0 and use the truncate
method on the reply packet in the code you use for the ReplyHandler.

Returns a Net::DNS::Nameserver object, or undef if the object
couldn't be created.

See L</EXAMPLE> for an example.

=head2 main_loop

$ns->main_loop;

Start accepting queries. Calling main_loop never returns.

=cut

=head2 loop_once

$ns->loop_once( [TIMEOUT_IN_SECONDS] );

Start accepting queries, but returns. If called without a parameter,
the call will not return until a request has been received (and
replied to). If called with a number, that number specifies how many
Handling a request and replying obviously depends on the speed of ReplyHandler. Assuming ReplyHandler is super fast, loop_once should spend just a fraction of a second, if called with a timeout value of 0 seconds. One exception is when an AXFR has requested a huge amount of data that the OS is not ready to receive in full. In that case, it will keep running through a loop (while servicing new requests) until the reply has been sent.

In case loop_once accepted a TCP connection it will immediately check if there is data to be read from the socket. If not it will return and you will have to call loop_once() again to check if there is any data waiting on the socket to be processed. In most cases you will have to count on calling "loop_once" twice.

A code fragment like:

```perl
$ns->loop_once(10);
while( $ns->get_open_tcp() ){
  $ns->loop_once(0);
}
```

Would wait for 10 seconds for the initial connection and would then process all TCP sockets until none is left.

=head2 get_open_tcp

In scalar context returns the number of TCP connections for which state is maintained. In array context it returns IO::Socket objects, these could be useful for troubleshooting but be careful using them.

=head1 EXAMPLE

The following example will listen on port 5353 and respond to all queries for A records with the IP address 10.1.2.3. All other queries will be answered with NXDOMAIN. Authority and additional sections are left empty. The $peerhost variable catches the IP address of the peer host, so that additional filtering on its basis may be applied.

```perl
#!/usr/bin/perl

use strict;
use warnings;
use Net::DNS::Nameserver;

sub reply_handler {
```
my ($qname, $qclass, $qtype, $peerhost,$query,$conn) = @_;
my ($rcode, @ans, @auth, @add);
print "Received query from $peerhost to ". $conn->{sockhost}. "\n";
$query->print;
if ($qtype eq "A" && $qname eq "foo.example.com" ) {
my ($ttl, $rdata) = (3600, "10.1.2.3");
my $rr = new Net::DNS::RR("$qname $ttl $qclass $qtype $rdata");
push @ans, $rr;
$rcode = "NOERROR";
}elsif( $qname eq "foo.example.com" ) {
$rcode = "NOERROR";
}else{
$rcode = "NXDOMAIN";
}
# mark the answer as authoritive (by setting the 'aa' flag
return ($rcode, \@ans, \@auth, \@add, { aa => 1 });
}
my $ns = new Net::DNS::Nameserver(
LocalPort => 5353,
ReplyHandler => \&reply_handler,
Verbose => 1
) || die "couldn't create nameserver object\n";
$ns->main_loop;
=head1 BUGS
Limitations in perl 5.8.6 makes it impossible to guarantee that
replies to UDP queries from Net::DNS::Nameserver are sent from the
IP-address they were received on. This is a problem for machines with
multiple IP-addresses and causes violation of RFC2181 section 4.
Thus a UDP socket created listening to INADDR_ANY (all available
IP-addresses) will reply not necessarily with the source address being
the one to which the request was sent, but rather with the address that
the operating system choses. This is also often called "the closest
address". This should really only be a problem on a server which has
more than one IP-address (besides localhost - any experience with IPv6
complications here, would be nice). If this is a problem for you, a
work-around would be to not listen to INADDR_ANY but to specify each
address that you want this module to listen on. A separate set of
sockets will then be created for each IP-address.
=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Update>, L<Net::DNS::Header>, L<Net::DNS::Question>,
L<Net::DNS::RR>, RFC 1035

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Nameserver.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::NS - DNS NS resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Name Server (NS) resource records.

=head1 METHODS

=head2 nsdname

print "nsdname = ", $rr->nsdname, "\n";

Returns the name of the nameserver.

=head1 COPYRIGHT

Open Source Used In Tetration 3.5.1 23421
Net::DNS::RR::MX - DNS MX resource record

Class for DNS Mail Exchanger (MX) resource records.

 METHODS

 preference

    print "preference = ", $rr->preference, "\n";

 Returns the preference for this mail exchange.

 exchange

    print "exchange = ", $rr->exchange, "\n";


Returns name of this mail exchange.

=head1 COPYRIGHT

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Portions Copyright (c) 2002-2004 Chris Reinhardt.
Portions Copyright (c) 2005 Olaf Kolkman NLnet Labs.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.9

cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/MX.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::TKEY - DNS TKEY resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS TKEY resource records.

=head1 METHODS

=head2 algorithm

$rr->algorithm($algorithm_name);
    print "algorithm = ", $rr->algorithm, "\n";

Gets or sets the domain name that specifies the name of the algorithm.
The default algorithm is gss.microsoft.com
=head2 inception

$rr->inception(time);
    print "inception = ", $rr->inception, "\n";

Gets or sets the inception time as the number of seconds since 1 Jan 1970 00:00:00 UTC.

The default inception time is the current time.

=head2 expiration

$rr->expiration(time);
    print "expiration = ", $rr->expiration, "\n";

Gets or sets the expiration time as the number of seconds since 1 Jan 1970 00:00:00 UTC.

The default expiration time is the current time plus 1 day.

=head2 mode

$rr->mode(3);
    print "mode = ", $rr->mode, "\n";

Sets the key mode (see rfc2930). The default is 3 which corresponds to GSSAPI

=head2 error

    print "error = ", $rr->error, "\n";

Returns the RCODE covering TKEY processing. See RFC 2930 for details.

=head2 other_len

    print "other len = ", $rr->other_len, "\n";

Returns the length of the Other Data. Should be zero.

=head2 other_data

    print "other data = ", $rr->other_data, "\n";

Returns the Other Data. This field should be empty.

=head1 BUGS

This code has not been extensively tested. Use with caution on
production systems. See http://samba.org/ftp/samba/tsig-gss/ for an example usage.

=head1 COPYRIGHT

Copyright (c) 2000 Andrew Tridgell. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 ACKNOWLEDGMENT

The Net::DNS::RR::TKEY module is based on the TSIG module by Michael Fuhr and Chris Turbeville.

=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 2845

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1.tar.gz/Net-DNS-0.68/lib/Net/DNS/RR/TKEY.pm

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#############################################

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::DomainName>, L<Net::DNS::Packet>, RFC 1035 Section 4.1.2
check_soa - Check nameservers for a domain

check_soa [-d] [-n] [-t] [-v] domain [nameserver]

check_soa builds a list of nameservers for the zone which contains the specified domain name. The program queries each nameserver for the relevant SOA record and reports the zone serial number.

Error reports are generated for nameservers which reply with incorrect, non-authoritative or outdated information.

SOA query packets are sent to the nameservers as rapidly as the underlying hardware will allow. The program waits for a response only when it is needed for analysis. Execution time is determined by the slowest nameserver.

This perldoc(1) documentation page is displayed if the I<domain> argument is omitted.

The program is based on the B<check_soa> idea described by Albitz and Liu.
OPTIONS

Turn on resolver diagnostics.

Report negative cache TTL.

Ignore UDP datagram truncation.

Verbose output including address records for each nameserver.

EXAMPLES

Query all nameservers for the specified domain.

Query nameservers for the corresponding in-addr.arpa subdomain.

Query nameservers for the corresponding ip6.arpa subdomain.

As above, for IPv6 address prefix of specified length.

Query specific nameserver as above.
=head1 BUGS

The program can become confused by zones which originate, or appear to originate, from more than one primary server.

The timeout code uses the perl 4 argument select() function. This is not guaranteed to work in non-Unix environments.

=head1 COPYRIGHT

(c) 2003-2011 Dick Franks <rwfranks[...]acm.org>

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=head1 SEE ALSO

Paul Albitz, Cricket Liu.
O'Reilly, 2006.

Andrews, M.,
Locally Served DNS Zones,
RFC6303, IETF, 2011.

Andrews, M.,
Negative Caching of DNS Queries,

Elz, R., Bush, R.,
Clarifications to the DNS Specification,

Mockapetris, P.,
Domain Names - Implementation and Specification,

Larry Wall, Tom Christiansen, Jon Orwant.
O'Reilly, 2000.
Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/contrib/check_soa
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=head2 Resolver Objects

A resolver object is an instance of the
L<Net::DNS::Resolver|Net::DNS::Resolver> class. A program can have
multiple resolver objects, each maintaining its own state information
such as the nameservers to be queried, whether recursion is desired,
etc.

=head2 Packet Objects

L<Net::DNS::Resolver|Net::DNS::Resolver> queries return
L<Net::DNS::Packet|Net::DNS::Packet> objects. Packet objects have five
sections:

=over 3

=item *

The header section, a L<Net::DNS::Header|Net::DNS::Header> object.

=item *

The question section, a list of L<Net::DNS::Question|Net::DNS::Question>
objects.

=item *

The answer section, a list of L<Net::DNS::RR|Net::DNS::RR> objects.

=item *

The authority section, a list of L<Net::DNS::RR|Net::DNS::RR> objects.

=item *

The additional section, a list of L<Net::DNS::RR|Net::DNS::RR> objects.

=back

=head2 Update Objects
The `Net::DNS::Update` package is a subclass of `Net::DNS::Packet` for creating packet objects to be used in dynamic updates.

=head2 Header Objects

`Net::DNS::Header` objects represent the header section of a DNS packet.

=head2 Question Objects

`Net::DNS::Question` objects represent the question section of a DNS packet.

=head2 RR Objects

`Net::DNS::RR` is the base class for DNS resource record (RR) objects in the answer, authority, and additional sections of a DNS packet.

Don't assume that RR objects will be of the type you requested -- always check an RR object's type before calling any of its methods.

=head1 METHODS

See the manual pages listed above for other class-specific methods.

=head2 version

    print Net::DNS->version, "\n";

Returns the version of Net::DNS.

=head2 mx

    # Use a default resolver -- can't get an error string this way.
    use Net::DNS;
    my @mx = mx("example.com");

    # Use your own resolver object.
    use Net::DNS;
    my $res = Net::DNS::Resolver->new;
    my @mx = mx($res, "example.com");

Returns a list of `Net::DNS::RR::MX` objects representing the MX records for the specified name; the list will be sorted by preference. Returns an empty list if the query failed or no MX records were found.
This method does not look up A records -- it only performs MX queries.

See L</EXAMPLES> for a more complete example.

=head2 yxrrset

Use this method to add an "RRset exists" prerequisite to a dynamic update packet. There are two forms, value-independent and value-dependent:

# RRset exists (value-independent)
$update->push(pre => yxrrset("host.example.com A"));

Meaning: At least one RR with the specified name and type must exist.

# RRset exists (value-dependent)
$packet->push(pre => yxrrset("host.example.com A 10.1.2.3"));

Meaning: At least one RR with the specified name and type must exist and must have matching data.

Returns a C<Net::DNS::RR> object or C<undef> if the object couldn't be created.

=head2 nxrrset

Use this method to add an "RRset does not exist" prerequisite to a dynamic update packet.

$packet->push(pre => nxrrset("host.example.com A"));

Meaning: No RRs with the specified name and type can exist.

Returns a C<Net::DNS::RR> object or C<undef> if the object couldn't be created.

=head2 yxdomain

Use this method to add a "name is in use" prerequisite to a dynamic update packet.

$packet->push(pre => yxdomain("host.example.com"));

Meaning: At least one RR with the specified name must exist.

Returns a C<Net::DNS::RR> object or C<undef> if the object couldn't
be created.

=head2 nxdomain

Use this method to add a "name is not in use" prerequisite to a dynamic update packet.

   $packet->push(pre => nxdomain("host.example.com"));

Meaning: No RR with the specified name can exist.

Returns a C<Net::DNS::RR> object or C<undef> if the object couldn't be created.

=head2 rr_add

Use this method to add RRs to a zone.

   $packet->push(update => rr_add("host.example.com A 10.1.2.3"));

Meaning: Add this RR to the zone.

RR objects created by this method should be added to the "update" section of a dynamic update packet. The TTL defaults to 86400 seconds (24 hours) if not specified.

Returns a C<Net::DNS::RR> object or C<undef> if the object couldn't be created.

=head2 rr_del

Use this method to delete RRs from a zone. There are three forms: delete an RRset, delete all RRsets, and delete an RR.

   # Delete an RRset.
   $packet->push(update => rr_del("host.example.com A"));

Meaning: Delete all RRs having the specified name and type.

   # Delete all RRsets.
   $packet->push(update => rr_del("host.example.com"));

Meaning: Delete all RRs having the specified name.

   # Delete an RR.
   $packet->push(update => rr_del("host.example.com A 10.1.2.3"));

Meaning: Delete all RRs having the specified name, type, and data.
RR objects created by this method should be added to the "update" section of a dynamic update packet.

Returns a C<Net::DNS::RR> object or C<undef> if the object couldn't be created.

=head1 Zone Serial Number Management

The Net::DNS module provides auxiliary functions which support policy-driven zone serial numbering regimes.

=head2 Strictly Sequential

$succesor = $soa->serial( SEQUENTIAL );

The existing serial number is incremented modulo 2**32.

=head2 Time Encoded

$succesor = $soa->serial( UNIXTIME );

The Unix time scale will be used as the basis for zone serial numbering. The serial number will be incremented if the time elapsed since the previous update is less than one second.

=head2 Date Encoded

$succesor = $soa->serial( YYYYMMDDxx );

The 32 bit value returned by the auxiliary YYYYMMDDxx() function will be used as the base for the date-coded zone serial number.
Serial number increments must be limited to 100 per day for the date information to remain useful.

=head2 Sorting of RR arrays

As of version 0.55 there is functionality to help you sort RR arrays. 'rrsort()' is the function that is available to do the sorting. In most cases rrsort will give you the answer that you want but you can specify your own sorting method by using the Net::DNS::RR::FOO->set_rrsort_func() class method. See L<Net::DNS::RR> for details.
use Net::DNS qw(rrsort);

my @prioritysorted=rrsort("SRV","priority",@rr_array);

rrsort() selects all RRs from the input array that are of the type that are defined in the first argument. Those RRs are sorted based on the attribute that is specified as second argument.

There are a number of RRs for which the sorting function is specifically defined for certain attributes. If such sorting function is defined in the code (it can be set or overwritten using the set_rrsort_func() class method) that function is used.

For instance:
    my @prioritysorted=rrsort("SRV","priority",@rr_array);
returns the SRV records sorted from lowest to highest priority and for equal priorities from highest to lowest weight.

If the function does not exist then a numerical sort on the attribute value is performed.
    my @portsorted=rrsort("SRV","port",@rr_array);

If the attribute does not exist for a certain RR than the RRs are sorted on string comparison of the rdata.

If the attribute is not defined than either the default_sort function will be defined or "Canonical sorting" (as defined by DNSSEC) will be used.

rrsort() returns a sorted array with only elements of the specified RR type or undef.

rrsort() returns undef when arguments are incorrect.

=head1 EXAMPLES

The following examples show how to use the C<Net::DNS> modules. See the other manual pages and the demo scripts included with the source code for additional examples.

See the C<Net::DNS::Update> manual page for an example of performing dynamic updates.
Look up a host's addresses.

```perl
use Net::DNS;
my $res   = Net::DNS::Resolver->new;
my $query = $res->search("host.example.com");

if ($query) {
    foreach my $rr ($query->answer) {
        next unless $rr->type eq "A";
        print $rr->address, "\n";
    }
} else {
    warn "query failed: ", $res->errorstring, "\n";
}
```

Find the nameservers for a domain.

```perl
use Net::DNS;
my $res   = Net::DNS::Resolver->new;
my $query = $res->query("example.com", "NS");

if ($query) {
    foreach $rr (grep { $rr->type eq 'NS' } $query->answer) {
        print $rr->nsdname, "\n";
    }
} else {
    warn "query failed: ", $res->errorstring, "\n";
}
```

Find the MX records for a domain.

```perl
use Net::DNS;
my $name = "example.com";
my $res  = Net::DNS::Resolver->new;
my @mx   = mx($res, $name);

if (@mx) {
    foreach $rr (@mx) {
        print $rr->preference, " ", $rr->exchange, "\n";
    }
} else {
    warn "Can't find MX records for $name: ", $res->errorstring, "\n";
}
```

Print a domain's SOA record in zone file format.
use Net::DNS;
my $res = Net::DNS::Resolver->new;
my $query = $res->query("example.com", "SOA");

if ($query) {
    ($query->answer)[0]->print;
} else {
    print "query failed: ", $res->errorstring, "\n";
}

=head2 Perform a zone transfer and print all the records.

use Net::DNS;
my $res = Net::DNS::Resolver->new;
$res->nameservers("ns.example.com");

my @zone = $res->axfr("example.com");

foreach $rr (@zone) {
    $rr->print;
}

=head2 Perform a background query and do some other work while waiting
for the answer.

use Net::DNS;
my $socket = $res->bgsend("host.example.com");

until ($res->bgisready($socket)) {  
    # do some work here while waiting for the answer  
    # ...and some more here
}

my $packet = $res->bgread($socket);
$packet->print;

=head2 Send a background query and use select to determine when the answer
has arrived.

use Net::DNS;
use IO::Select;

my $timeout = 5;
my $res = Net::DNS::Resolver->new;
my $bgsock = $res->bgsend("host.example.com");
my $sel = IO::Select->new($bgsock);
# Add more sockets to $sel if desired.
my @ready = $sel->can_read($timeout);
if (@ready) {
    foreach my $sock (@ready) {
        if ($sock == $bgsock) {
            my $packet = $res->bgread($bgsock);
            $packet->print;
            $bgsock = undef;
        }
    # Check for the other sockets.
    $sel->remove($sock);
    $sock = undef;
    }
} else {
    warn "timed out after $timeout seconds\n";
}

=head1 BUGS

C<Net::DNS> is slow.

For other items to be fixed, or if you discover a bug in this
distribution please use the CPAN bug reporting system.

=head1 COPYRIGHT

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modify it under the same terms as Perl itself.

=head1 AUTHOR INFORMATION

Net::DNS is currently maintained at NLnet Labs (www.nlnetlabs.nl) by:
   Olaf Kolkman
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Between 2002 and 2004 Net::DNS was maintained by:
   Chris Reinhardt
Net::DNS was created by:
Michael Fuhr
mike@fuhr.org

For more information see:
http://www.net-dns.org/

Stay tuned and syndicate:
http://www.net-dns.org/blog/

=head1 SEE ALSO
L<perl>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Update>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1035,
I<DNS and BIND> by Paul Albitz & Cricket Liu

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Net::DNS::RR::NSAP - DNS NSAP resource record

=head1 SYNOPSIS
C<use Net::DNS::RR;>

=head1 DESCRIPTION
Class for DNS Network Service Access Point (NSAP) resource records.

=head1 METHODS

=head2 idp

    print "idp = ", $rr->idp, "n";

Returns the RR's initial domain part (the AFI and IDI fields).

=head2 dsp
print "dsp = ", $rr->dsp, "\n";

Returns the RR's domain specific part (the DFI, AA, Rsvd, RD, Area, ID, and SEL fields).

=head2 afi

print "afi = ", $rr->afi, "\n";

Returns the RR's authority and format identifier. 
C<Net::DNS> currently supports only AFI 47 (GOSIP Version 2).

=head2 idi

print "idi = ", $rr->idi, "\n";

Returns the RR's initial domain identifier.

=head2 dfi

print "dfi = ", $rr->dfi, "\n";

Returns the RR's DSP format identifier.

=head2 aa

print "aa = ", $rr->aa, "\n";

Returns the RR's administrative authority.

=head2 rsvd

print "rsvd = ", $rr->rsvd, "\n";

Returns the RR's reserved field.

=head2 rd

print "rd = ", $rr->rd, "\n";

Returns the RR's routing domain identifier.

=head2 area

print "area = ", $rr->area, "\n";

Returns the RR's area identifier.
print "id = ", $rr->id, "\n";

Returns the RR's system identifier.

print "sel = ", $rr->sel, "\n";

Returns the RR's NSAP selector.

NOTE

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SEE ALSO

perl(1), Net::DNS, Net::DNS::Resolver, Net::DNS::Packet, Net::DNS::Header, Net::DNS::Question, Net::DNS::RR, RFC 1706.

NAME

Net::DNS::Resolver::Win32 - Windows Resolver Class

SYNOPSIS

use Net::DNS::Resolver;

DESCRIPTION
This class implements the windows specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Resolver/Win32.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::A - DNS A resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Address (A) resource records.

=head1 METHODS

=head2 address

print "address = ", $rr->address, "\n";

Returns the RR's address field.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.4.1
=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/A.pm

No license file was found, but licenses were detected in source scan.

=head2 id

print "query id = ", $header->id, "\n";
$header->id(1234);

Gets or sets the query identification number.

=head2 qr

print "query response flag = ", $header->qr, "\n";
$header->qr(0);

Gets or sets the query response flag.

=head2 opcode

print "query opcode = ", $header->opcode, "\n";
$header->opcode("UPDATE");

Gets or sets the query opcode (the purpose of the query).

=head2 aa

print "answer is ", $header->aa ? "" : "non-", "authoritative\n";
$header->aa(0);

Gets or sets the authoritative answer flag.

=head2 tc

print "packet is ", $header->tc ? "" : "not ", "truncated\n";
$header->tc(0);

Gets or sets the truncated packet flag.

=head2 rd

print "recursion was ", $header->rd ? "" : "not ", "desired\n";
$header->rd(0);

Gets or sets the recursion desired flag.

=head2 cd

print "checking was ", $header->cd ? "not" : "", "desired\n";
$header->cd(0);

Gets or sets the checking disabled flag.

=head2 ra

print "recursion is ", $header->ra ? "" : "not ", "available\n";
$header->ra(0);

Gets or sets the recursion available flag.

=head2 ad

print "The result has ", $header->ad ? "" : "not", "been verified\n"

Relevant in DNSSEC context.

(The AD bit is only set on answers where signatures have been
cryptographically verified or the server is authoritative for the data
and is allowed to set the bit by policy.)
=head2 rcode

  print "query response code = ", $header->rcode, "\n";
  $header->rcode("SERVFAIL");

Gets or sets the query response code (the status of the query).

=head2 qdcount, zocount

  print "# of question records: ", $header->qdcount, "\n";
  $header->qdcount(2);

Gets or sets the number of records in the question section of the packet.  
In dynamic update packets, this field is known as C<zocount> and refers 
to the number of RRs in the zone section.

=head2 ancount, prcount

  print "# of answer records: ", $header->ancount, "\n";
  $header->ancount(5);

Gets or sets the number of records in the answer section of the packet.  
In dynamic update packets, this field is known as C<prcount> and refers 
to the number of RRs in the prerequisite section.

=head2 nscount, upcount

  print "# of authority records: ", $header->nscount, "\n";
  $header->nscount(2);

Gets or sets the number of records in the authority section of the packet. 
In dynamic update packets, this field is known as C<upcount> and refers 
to the number of RRs in the update section.

=head2 arcount, adcount

  print "# of additional records: ", $header->arcount, "\n";
  $header->arcount(3);

Gets or sets the number of records in the additional section of the packet. 
In dynamic update packets, this field is known as C<adcount>.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Packet>,
RFC 1035 Section 4.1.1

FOUND IN PATH(S):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Header.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::TXT - DNS TXT resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Text (TXT) resource records.

=head1 METHODS

=head2 txtdata

print "txtdata = ", $rr->txtdata, "\n";

Returns the descriptive text as a single string, regardless of actual number of <character-string> elements. Of questionable value. Should be deprecated.

Use C<< $txt->rdatastr() >> or C<< $txt->char_str_list() >> instead.

=head2 char_str_list
print "Individual <character-string> list: \n", join("\n", $rr->char_str_list()));

Returns a list of the individual <character-string> elements, as unquoted strings. Used by TXT->rdatastr and TXT->rr_rdata.

NB: rdatastr will return quoted strings.

=head1 FEATURES

The RR.pm module accepts semi-colons as a start of a comment. This is to allow the RR.pm to deal with RFC1035 specified zonefile format.

For some applications of the TXT RR the semicolon is relevant, you will need to escape it on input.

Also note that you should specify the several character strings separately. The easiest way to do so is to include the whole argument in single quotes and the several character strings in double quotes. Double quotes inside the character strings will need to be escaped.

my $TXTrr=Net::DNS::RR->new('txt2.t.net-dns.org.	60	IN TXT "Test1 " ; more stuff" "Test2"');

would result in
$TXTrr->char_str_list()[0] containing 'Test1 " ; more stuff'
and
$TXTrr->char_str_list()[1] containing 'Test2'

Note that the rdatastr method (and therefore the print, and string method) returns the escaped format.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.14

cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/TXT.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::DNAME - DNS DNAME resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Non-Terminal Name Redirection (DNAME) resource records.

=head1 METHODS

=head2 dname

    print "dname = ", $rr->dname, "\n";

Returns the DNAME target.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 2672
NAME

Net::DNS::Resolver::Cygwin - Cygwin Resolver Class

SYNOPSIS

use Net::DNS::Resolver;

DESCRIPTION

This class implements the cygwin specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver|Net::DNS::Resolver> for all your resolving needs.

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SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>

NAME

Net::DNS::RR::NAPTR - DNS NAPTR resource record

SYNOPSIS
C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Naming Authority Pointer (NAPTR) resource records.

=head1 METHODS

=head2 order

    print "order = ", $rr->order, "\n";

Returns the order field.

=head2 preference

    print "preference = ", $rr->preference, "\n";

Returns the preference field.

=head2 flags

    print "flags = ", $rr->flags, "\n";

Returns the flags field.

=head2 service

    print "service = ", $rr->service, "\n";

Returns the service field.

=head2 regexp

    print "regexp = ", $rr->regexp, "\n";

Returns the regexp field.

=head2 replacement

    print "replacement = ", $rr->replacement, "\n";

Returns the replacement field.

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B<Net::DNS::RR::NAPTR> is based on code contributed by Ryan Moats.

=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 2168

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/NAPTR.pm
No license file was found, but licenses were detected in source scan.

#########################################################

=head1 BUGS

Coding strategy is intended to avoid creating unnecessary argument lists and stack frames. This improves efficiency at the expense of code readability.

Platform specific character coding features are conditionally compiled into the code.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, RFC1035, RFC3629,
Unicode Technical Report #16
=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Text.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::MG - DNS MG resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Mail Group (MG) resource records.

=head1 METHODS

=head2 mgmname

    print "mgmname = ", $rr->mgmname, "\n"

Returns the RR's mailbox field.

=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1035 Section 3.3.6

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/MG.pm
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=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Update>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 4.1, RFC 2136 Section 2, RFC 2845

cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Packet.pm
No license file was found, but licenses were detected in source scan.

=head1 BUGS

This version of C<Net::DNS::RR> does little sanity checking on user-created RR objects.

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EDNS0 extensions by Olaf Kolkman.

=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Update>, L<Net::DNS::Header>, L<Net::DNS::Question>,
RFC 1035 Section 4.1.3

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-
0.68/lib/Net/DNS/RR.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::Resolver::UNIX - UNIX Resolver Class

=head1 SYNOPSIS

use Net::DNS::Resolver;

=head1 DESCRIPTION

This class implements the UNIX specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::HIP - DNS HIP resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

This class implements the HIP RR (RFC5205)

=head1 METHODS

=head2 pkalgorithm

Returns or sets the public key algorithm field

=head2 hit

Returns or sets the hit in base16 representation.

=head2 hitbin

Returns or sets the binary representation of the the hit.

Using hit or hitbin to set the one of these attributes will update both attributes.

=head2 pubkey

Returns or sets the publick key in base64 representation.

=head2 pubkey

Returns or sets the binary representation of the the public key.

Using pubkey or pubkeybin to set the one of these attributes will update both attributes.

=head2 rendezvousservers

my $rendezvousservers=$hip->rendezvousservers();
Returns a reference to an array of rendezvous servers. The representation is in Perl's internal storage format i.e. without trailing dot.

```
$hip->rendezvousservers( [ qw|example.com  example.net| ] )
```

With a reference to an array as the argument this method will set the rendezvousservers.

=head1 NOTES

Since (multiline) base64 encoded publik keys may contain spaces string parsing of the HIP RR depends on rendezvous server names containing at least one . (dot) in their domain name. Failure of string parsing will return an 'undef'.

The rdatastr method (and hence the string and print methods) return the rendezvousservers as fully qualified domain names.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 5205

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/HIP.pm

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=head1 SEE ALSO

L<Net::DNS::RR::APL>,
L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 3123

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/APL/ApItem.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::TSIG - DNS TSIG resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Transaction Signature (TSIG) resource records.

=head1 METHODS

=head2 algorithm

$rr->algorithm($algorithm_name);
print "algorithm = ", $rr->algorithm, 
"\n";

Gets or sets the domain name that specifies the name of the algorithm.
The only algorithm currently supported is HMAC-MD5.SIG-ALG.REG.INT.

=head2 time_signed

$rr->time_signed(time);
print "time signed = ", $rr->time_signed, 
"\n";

Gets or sets the signing time as the number of seconds since 1 Jan 1970
00:00:00 UTC.

The default signing time is the current time.
=head2 fudge

$rr->fudge(60);
print "fudge = ", $rr->fudge, "\n";

Gets or sets the "fudge", i.e., the seconds of error permitted in the
signing time.

The default fudge is 300 seconds.

=head2 mac_size

print "MAC size = ", $rr->mac_size, "\n";

Returns the number of octets in the message authentication code (MAC).
The programmer must call a Net::DNS::Packet object's data method
before this will return anything meaningful.

=head2 mac

print "MAC = ", $rr->mac, "\n";

Returns the message authentication code (MAC) as a string of hex
characters. The programmer must call a Net::DNS::Packet object's
data method before this will return anything meaningful.

=head2 original_id

$rr->original_id(12345);
print "original ID = ", $rr->original_id, "\n";

Gets or sets the original message ID.

=head2 error

print "error = ", $rr->error, "\n";

Returns the RCODE covering TSIG processing. Common values are
NOERROR, BADSIG, BADKEY, and BADTIME. See RFC 2845 for details.

=head2 other_len

print "other len = ", $rr->other_len, "\n";

Returns the length of the Other Data. Should be zero unless the
error is BADTIME.
=head2 other_data

    print "other data = ", $rr->other_data, "\n";

Returns the Other Data. This field should be empty unless the error is BADTIME, in which case it will contain the server's time as the number of seconds since 1 Jan 1970 00:00:00 UTC.

=head2 sig_data

    my $sigdata = $tsig->sig_data($packet);

Returns the packet packed according to RFC2845 in a form for signing. This is only needed if you want to supply an external signing function, such as is needed for TSIG-GSS.

=head2 sign_func

    sub my_sign_fn($$) {
        my ($key, $data) = @_;;

        return some_digest_algorithm($key, $data);
    }

$tsig->sign_func(&my_sign_fn);

This sets the signing function to be used for this TSIG record.

The default signing function is HMAC-MD5.

=head1 BUGS

This code is still under development. Use with caution on production systems.

The time_signed and other_data fields should be 48-bit unsigned integers (RFC 2845, Sections 2.3 and 4.5.2). The current implementation ignores the upper 16 bits; this will cause problems for times later than 19 Jan 2038 03:14:07 UTC.

The only builtin algorithm currently supported is HMAC-MD5.SIG-ALG.REG.INT. You can use other algorithms by supplying an appropriate sign_func.

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=head1 ACKNOWLEDGMENT

Most of the code in the Net::DNS::RR::TSIG module was contributed by Chris Turbeville.

Support for external signing functions was added by Andrew Tridgell.

=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 2845

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/TSIG.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::RP - DNS RP resource record

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for DNS Responsible Person (RP) resource records.

=head1 METHODS

=head2 mbox

  print "mbox = ", $rr->mbox, "\n";

Returns a domain name that specifies the mailbox for the responsible person.

=head2 txtdname

  print "txtdname = ", $rr->txtdname, "\n";


Returns a domain name that specifies a TXT record containing further information about the responsible person.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1183 Section 2.2

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/RP.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::RT - DNS RT resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Route Through (RT) resource records.

=head1 METHODS

=head2 preference

print "preference = ", $rr->preference, "\n";

Returns the preference for this route.

=head2 intermediate
print "intermediate = ", $rr->intermediate, "\n";

Returns the domain name of the intermediate host.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1183 Section 3.3

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/RT.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::Resolver - DNS resolver class

=head1 SYNOPSIS

use Net::DNS;

my $res = Net::DNS::Resolver->new;

# Perform a lookup, using the searchlist if appropriate.
my $answer = $res->search('example.com');

# Perform a lookup, without the searchlist
my $answer = $res->query('example.com', 'MX');

# Perform a lookup, without pre or post-processing
my $answer = $res->send('example.com', 'MX', 'CH');

# Send a prebuilt packet
my $packet = Net::DNS::Packet->new(...);
my $answer = $res->send($packet);

=head1 DESCRIPTION

Instances of the C<Net::DNS::Resolver> class represent resolver objects. A program can have multiple resolver objects, each maintaining its own state information such as the nameservers to be queried, whether recursion is desired, etc.

=head1 METHODS

=head2 new

# Use the system defaults
my $res = Net::DNS::Resolver->new;

# Use my own configuration file
my $res = Net::DNS::Resolver->new(config_file => '/my/dns.conf');

# Set options in the constructor
my $res = Net::DNS::Resolver->new(
    nameservers => [qw(10.1.1.128 10.1.2.128)],
    recurse => 0,
    debug => 1,
);

Returns a resolver object. If given no arguments, C<new()> returns an object configured to your system's defaults. On UNIX systems the defaults are read from the following files, in the order indicated:

/etc/resolv.conf
$HOME/.resolv.conf
./resolv.conf

The following keywords are recognized in resolver configuration files:

=over 4

=item domain

The default domain.

=item search

A space-separated list of domains to put in the search list.

=item nameserver
A space-separated list of nameservers to query.

Files except for F<etc/resolv.conf> must be owned by the effective userid running the program or they won't be read. In addition, several environment variables can also contain configuration information; see L</ENVIRONMENT>.

On Windows systems, an attempt is made to determine the system defaults using the registry. This is still a work in progress; systems with many dynamically configured network interfaces may confuse Net::DNS.

You can include a configuration file of your own when creating a resolver object:

```
# Use my own configuration file
my $res = Net::DNS::Resolver->new(config_file => '/my/dns.conf');
```

This is supported on both UNIX and Windows. Values pulled from a custom configuration file override the system's defaults, but can still be overridden by the other arguments to new().

Explicit arguments to new override both the system's defaults and the values of the custom configuration file, if any. The following arguments to new() are supported:

=over 4

=item nameservers

An array reference of nameservers to query.

=item searchlist

An array reference of domains.

=item recurse

=item debug

=item domain

=item port

=item srcaddr

=item srcport
For more information on any of these options, please consult the method of the same name.

=head2 search

$packet = $res->search('mailhost');
$packet = $res->search('mailhost.example.com');
$packet = $res->search('192.168.1.1');
$packet = $res->search('example.com', 'MX');
$packet = $res->search('user.passwd.example.com', 'TXT', 'HS');

Performs a DNS query for the given name, applying the searchlist if appropriate. The search algorithm is as follows:

=over 4

=item 1.

If the name contains at least one dot, try it as is.

=item 2.
If the name doesn't end in a dot then append each item in the search list to the name. This is only done if \texttt{B<\texttt{dnsrch}>} is true.

=item 3.

If the name doesn't contain any dots, try it as is.

=back

The record type and class can be omitted; they default to \texttt{A} and \texttt{IN}. If the name looks like an IP address (4 dot-separated numbers), then an appropriate \texttt{PTR} query will be performed.

Returns a "\texttt{Net::DNS::Packet}" object, or "\texttt{undef}" if no answers were found. If you need to examine the response packet whether it contains any answers or not, use the \texttt{send()} method instead.

=head2 query

\begin{verbatim}
$packet = $res->query('mailhost');
$packet = $res->query('mailhost.example.com');
$packet = $res->query('192.168.1.1');
$packet = $res->query('example.com', 'MX');
$packet = $res->query('user.passwd.example.com', 'TXT', 'HS');
\end{verbatim}

Performs a DNS query for the given name; the search list is not applied. If the name doesn't contain any dots and \texttt{B<\texttt{defnames}>} is true then the default domain will be appended.

The record type and class can be omitted; they default to \texttt{A} and \texttt{IN}. If the name looks like an IP address (IPv4 or IPv6), then an appropriate \texttt{PTR} query will be performed.

Returns a "\texttt{Net::DNS::Packet}" object, or "\texttt{undef}" if no answers were found. If you need to examine the response packet whether it contains any answers or not, use the \texttt{send()} method instead.

=head2 send

\begin{verbatim}
$packet = $res->send($packet_object);
$packet = $res->send('mailhost.example.com');
$packet = $res->send('example.com', 'MX');
$packet = $res->send('user.passwd.example.com', 'TXT', 'HS');
\end{verbatim}

Performs a DNS query for the given name. Neither the searchlist nor the default domain will be appended.
The argument list can be either a C<Net::DNS::Packet> object or a list of strings. The record type and class can be omitted; they default to A and IN. If the name looks like an IP address (Ipv4 or IPv6), then an appropriate PTR query will be performed.

Returns a C<Net::DNS::Packet> object whether there were any answers or not. Use C<< $packet->header->ancount >> or C<< $packet->answer >> to find out if there were any records in the answer section. Returns C<undef> if there was an error.

=head2 axfr

    @zone = $res->axfr;
    @zone = $res->axfr('example.com');
    @zone = $res->axfr('passwd.example.com', 'HS');

Performs a zone transfer from the first nameserver listed in C<nameservers>. If the zone is omitted, it defaults to the first zone listed in the resolver's search list. If the class is omitted, it defaults to IN.

Returns a list of C<Net::DNS::RR> objects, or C<undef> if the zone transfer failed.

The redundant SOA record that terminates the zone transfer is not returned to the caller.

See also L</axfr_start> and L</axfr_next>.

Here's an example that uses a timeout:

    $res->tcp_timeout(10);
    my @zone = $res->axfr('example.com');

    if (@zone) {
        foreach my $rr (@zone) {
            $rr->print;
        }
    } else {
        print 'Zone transfer failed: ', $res->errorstring, "\n";
    }

=head2 axfr_start

    $res->axfr_start;
    $res->axfr_start('example.com');
    $res->axfr_start('example.com', 'HS');
Starts a zone transfer from the first nameserver listed in C<nameservers>
If the zone is omitted, it defaults to the first zone listed in the resolver's
search list. If the class is omitted, it defaults to IN.

B<IMPORTANT>:

This method currently returns the C<IO::Socket::INET> object that will
be used for reading, or C<undef> on error. DO NOT DEPEND ON C<axfr_start()> returning a socket object. THIS MIGHT CHANGE in future releases.

Use C<axfr_next> to read the zone records one at a time.

=head2 axfr_next

$res->axfr_start('example.com');

while (my $rr = $res->axfr_next) {
    $rr->print;
}

Reads records from a zone transfer one at a time.

Returns C<undef> at the end of the zone transfer. The redundant
SOA record that terminates the zone transfer is not returned.

See also L</axfr>.

=head2 nameservers

@nameservers = $res->nameservers;
$nameservers('192.168.1.1', '192.168.2.2', '192.168.3.3');

Gets or sets the nameservers to be queried.

Also see the IPv6 transport notes below

=head2 print

$res->print;

Prints the resolver state on the standard output.

=head2 string

print $res->string;

Returns a string representation of the resolver state.
=head2 searchlist

@sectionlist = $res->{$res->searchlist;
$res->searchlist('example.com', 'a.example.com', 'b.example.com');

Gets or sets the resolver search list.

=head2 port

print 'sending queries to port ', $res->{port}, "\n";
$res->port(9732);

Gets or sets the port to which we send queries. This can be useful
for testing a nameserver running on a non-standard port. The
default is port 53.

=head2 srcport

print 'sending queries from port ', $res->{srcport}, "\n";
$res->srcport(5353);

Gets or sets the port from which we send queries. The default is 0,
meaning any port.

=head2 srcaddr

print 'sending queries from address ', $res->{srcaddr}, "\n";
$res->srcaddr('192.168.1.1');

Gets or sets the source address from which we send queries. Convenient
for forcing queries out a specific interfaces on a multi-homed host.
The default is 0.0.0.0, meaning any local address.

=head2 bgsend

$socket = $res->bgsend($packet_object) || die " $res->errorstring";

$socket = $res->bgsend('mailhost.example.com');
$socket = $res->bgsend('example.com', 'MX');
$socket = $res->bgsend('user.passwd.example.com', 'TXT', 'HS');

Performs a background DNS query for the given name, i.e., sends a
query packet to the first nameserver listed in C<< $res->nameservers >>
and returns immediately without waiting for a response. The program
can then perform other tasks while waiting for a response from the
nameserver.
The argument list can be either a `Net::DNS::Packet` object or a list of strings. The record type and class can be omitted; they default to A and IN. If the name looks like an IP address (4 dot-separated numbers), then an appropriate PTR query will be performed.

Returns an `IO::Socket::INET` object or `undef` on error in which case the reason for failure can be found through a call to the errorstring method.

The program must determine when the socket is ready for reading and call `<< $res->bgread >>` to get the response packet. You can use `<< $res->bgisready >>` or `IO::Select` to find out if the socket is ready before reading it.

`bgsend` does not support persistent sockets.
`bgsend` does not support the usevc option (TCP).

=head2 bgread

```perl
$packet = $res->bgread($socket);
undef $socket;
```

Reads the answer from a background query (see L</bgsend>). The argument is an `IO::Socket` object returned by `bgsend`.

Returns a `Net::DNS::Packet` object or `undef` on error.

The programmer should close or destroy the socket object after reading it.

=head2 bgisready

```perl
$socket = $res->bgsend('foo.example.com');
until ($res->bgisready($socket)) {
    # do some other processing
}
$packet = $res->bgread($socket);
/socket = undef;
```

Determines whether a socket is ready for reading. The argument is an `IO::Socket` object returned by `<< $res->bgsend >>`.

Returns true if the socket is ready, false if not.

=head2 tsig

```perl
my $tsig = $res->tsig;
```
$res->tsig(Net::DNS::RR->new("$key_name TSIG $key"));

$key = Net::DNS::RR->new("$key_name TSIG $key");
$key->fudge(60);
$res->tsig($key);

$res->tsig($key_name, $key);

$res->tsig(0);

Get or set the TSIG record used to automatically sign outgoing queries and updates. Call with an argument of 0 or " to turn off automatic signing.

The default resolver behavior is not to sign any packets. You must call this method to set the key if you'd like the resolver to sign packets automatically.

You can also sign packets manually -- see the C<Net::DNS::Packet> and C<Net::DNS::Update> manual pages for examples. TSIG records in manually-signed packets take precedence over those that the resolver would add automatically.

=head2 retrans

print 'retrans interval: ', $res->retrans, "\n";
$res->retrans(3);

Get or set the retransmission interval. The default is 5.

=head2 retry

print 'number of tries: ', $res->retry, "\n";
$res->retry(2);

Get or set the number of times to try the query. The default is 4.

=head2 recurse

print 'recursion flag: ', $res->recurse, "\n";
$res->recurse(0);

Get or set the recursion flag. If this is true, nameservers will be requested to perform a recursive query. The default is true.

=head2 defnames

print 'defnames flag: ', $res->defnames, "\n";
Get or set the defnames flag. If this is true, calls to B<query> will append the default domain to names that contain no dots. The default is true.

Get or set the dnsrch flag. If this is true, calls to B<search> will apply the search list. The default is true.

Get or set the debug flag. If set, calls to B<search>, B<query>, and B<send> will print debugging information on the standard output. The default is false.

Get or set the usevc flag. If true, then queries will be performed using virtual circuits (TCP) instead of datagrams (UDP). The default is false.

Get or set the TCP timeout in seconds. A timeout of C<undef> means indefinite. The default is 120 seconds (2 minutes).

Get or set the UDP timeout in seconds. A timeout of C<undef> means the retry and retrans settings will be just utilized to perform the retries until they are exhausted. The default is C<undef>. 
Get or set the persistent TCP setting. If set to true, Net::DNS will keep a TCP socket open for each host:port to which it connects. This is useful if you're using TCP and need to make a lot of queries or updates to the same nameserver.

This option defaults to false unless you're running under a SOCKSified Perl, in which case it defaults to true.

Get or set the persistent UDP setting. If set to true, Net::DNS will keep a single UDP socket open for all queries. This is useful if you're using UDP and need to make a lot of queries or updates.

Get or set the igntc flag. If true, truncated packets will be ignored. If false, truncated packets will cause the query to be retried using TCP. The default is false.

Returns a string containing the status of the most recent query.

Returns the IP address from which we received the last answer in response to a query.
print 'size of last answer: ', $res->answersize, "\n";

Returns the size in bytes of the last answer we received in response to a query.

=head2 dnssec

print "dnssec flag: ", $res->dnssec, "\n";
$res->dnssec(0);

Enabled DNSSEC this will set the checking disabled flag in the query header and add EDNS0 data as in RFC2671 and RFC3225

When set to true the answer and additional section of queries from secured zones will contain DNSKEY, NSEC and RRSIG records.

Setting calling the dnssec method with a non-zero value will set the UDP packet size to the default value of 2048. If that is to small or to big for your environment you should call the udppacketsize() method immeditatly after.

$res->dnssec(1);  # turns on DNSSEC and sets udp packetsize to 2048
$res->udppacketsize(1028);  # lowers the UDP packet size

The method will Croak::croak with the message "You called the Net::DNS::Resolver::dnssec() method but do not have Net::DNS::SEC installed at ..." if you call it without Net::DNS::SEC being in your @INC path.

=head2 cdflag

print "checking disabled flag: ", $res->dnssec, "\n";
$res->dnssec(1);
$res->cdflag(1);

Sets or gets the CD bit for a dnssec query. This bit is always zero for non dnssec queries. When the dnssec is enabled the flag defaults to 0 can be set to 1.

=head2 adflag

print "checking disabled flag: ", $res->dnssec, "\n";
$res->dnssec(1);
$res->adflag(1);

Sets or gets the AD bit for a dnssec query. This bit is always zero for non dnssec queries. When the dnssec is enabled the flag defaults to 1.

=head2 udppacketsize

    print "udppacketsize: ", $res->udppacketsize, "\n";
    $res->udppacketsize(2048);

udppacketsize will set or get the packet size. If set to a value greater than Net::DNS::PACKETSZ() an EDNS extension will be added indicating support for MTU path recovery.

Default udppacketsize is Net::DNS::PACKETSZ() (512)

=head1 CUSTOMIZING

Net::DNS::Resolver is actually an empty subclass. At compile time a super class is chosen based on the current platform. A side benefit of this allows for easy modification of the methods in Net::DNS::Resolver. You simply add a method to the namespace!

For example, if we wanted to cache lookups:

package Net::DNS::Resolver;

my %cache;

sub search {
    my ($self, @args) = @_;

    return $cache{@args} ||= $self->SUPER::search(@args);
}

=head1 IPv6 transport

The Net::DNS::Resolver library will use IPv6 transport if the appropriate libraries (Socket6 and IO::Socket::INET6) are available and the address the server tries to connect to is an IPv6 address.

The print() method will report if IPv6 transport is available.

You can use the force_v4() method with a non-zero argument to force IPv4 transport.
The nameserver() method has IPv6 dependend behavior. If IPv6 is not available or IPv4 transport has been forced the nameserver() method will only return IPv4 addresses.

For example

```perl
$res->nameservers('192.168.1.1', '192.168.2.2', '2001:610:240:0:53:0:0:3');
$res->force_v4(1);
print join (' ', $res->nameserver());
```

Will print: 192.168.1.1 192.168.2.2

=head1 ENVIRONMENT

The following environment variables can also be used to configure the resolver:

=head2 RES_NAMESERVERS

# Bourne Shell
RES_NAMESERVERS="192.168.1.1 192.168.2.2 192.168.3.3"
export RES_NAMESERVERS

# C Shell
setenv RES_NAMESERVERS "192.168.1.1 192.168.2.2 192.168.3.3"

A space-separated list of nameservers to query.

=head2 RES_SEARCHLIST

# Bourne Shell
RES_SEARCHLIST="example.com sub1.example.com sub2.example.com"
export RES_SEARCHLIST

# C Shell
setenv RES_SEARCHLIST "example.com sub1.example.com sub2.example.com"

A space-separated list of domains to put in the search list.

=head2 LOCALDOMAIN

# Bourne Shell
LOCALDOMAIN=example.com
export LOCALDOMAIN
# C Shell
setenv LOCALDOMAIN example.com

The default domain.

=head2 RES_OPTIONS

# Bourne Shell
RES_OPTIONS="retrans:3 retry:2 debug"
export RES_OPTIONS

# C Shell
setenv RES_OPTIONS "retrans:3 retry:2 debug"

A space-separated list of resolver options to set. Options that take values are specified as I<option>:I<value>.

=head1 BUGS

Error reporting and handling needs to be improved.

The current implementation supports TSIG only on outgoing packets.
No validation of server replies is performed.

bgSEND does not honor the usevc flag and only uses UDP for transport.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Packet>, L<Net::DNS::Update>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
L<resolver(5)>, RFC 1035, RFC 1034 Section 4.3.5

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Resolver.pm
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=head1 NAME

Net::DNS::RR::IPSECKEY - DNS IPSECKEY resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

CLASS for the IPSECKEY RR.

=head1 METHODS

In addition to the regular methods

=head2 algorithm

Returns the RR's algorithm field in decimal representation

   1 = RSA
   2 = DSA

=head2 precedence

Returns the precedence

=head2 gatetype

Returns the gatetype.

   0  "No gateway is present."
   1  "A 4-byte IPv4 address is present."
   2  "A 16-byte IPv6 address is present."
   3  "A wire-encoded domain name is present."

=head2 gateway

Returns the gateway in the relevant string notation.

=head2 pubkey

Returns the public key in base64 notation

=head2 pubbin
Returns the binary public key material in a string.

=head1 TODO

Check on validity of algorithm and gatetype.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC4025

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/IPSECKEY.pm
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/*
 * $Id: DNS.xs 639 2007-05-25 12:00:15Z olaf $
 *
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 * *
 */

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/DNS.xs
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=head1 NAME

Net::DNS::RR::CERT - DNS CERT resource record
SYNOPSIS

C<use Net::DNS::RR>;

DESCRIPTION

Class for DNS Certificate (CERT) resource records. (see RFC 2538)

METHODS

format

    print "format = ", $rr->format, "\n";

Returns the format code for the certificate (in numeric form)

tag

    print "tag = ", $rr->tag, "\n";

Returns the key tag for the public key in the certificate

algorithm

    print "algorithm = ", $rr->algorithm, "\n";

Returns the algorithm used by the certificate (in numeric form)

certificate

    print "certificate = ", $rr->certificate, "\n";

Returns the data comprising the certificate itself (in raw binary form)

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SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 2782
Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/CERT.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::SOA - DNS SOA resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Start of Authority (SOA) resource records.

=head1 METHODS

=head2 mname

    print "mname = ", $rr->mname, "\n";

Returns the domain name of the original or primary nameserver for
this zone.

=head2 rname

    print "rname = ", $rr->rname, "\n";

Returns a domain name that specifies the mailbox for the person
responsible for this zone.

=head2 serial

    print "serial = ", $rr->serial, "\n";
    $new_serial = $rr->serial(value);

Unsigned 32 bit version number of the original copy of the zone.
Zone transfers preserve this value.

RFC1982 defines a strict (irreflexive) partial ordering for zone
serial numbers. The serial number will be incremented unless the
replacement value argument satisfies the ordering constraint.
=head2 refresh

    print "refresh = ", $rr->refresh, "\n";

Returns the zone's refresh interval.

=head2 retry

    print "retry = ", $rr->retry, "\n";

Returns the zone's retry interval.

=head2 expire

    print "expire = ", $rr->expire, "\n";

Returns the zone's expire interval.

=head2 minimum

    print "minimum = ", $rr->minimum, "\n";

Returns the minimum (default) TTL for records in this zone.

=head1 Zone Serial Number Management

The internal logic of the serial() method offers support for several widely used zone serial numbering policies.

=head2 Strictly Sequential

    $successor = $soa->serial( SEQUENTIAL );

The existing serial number is incremented modulo 2**32 because the value returned by the auxiliary SEQUENTIAL() function can never satisfy the serial number ordering constraint.

=head2 Date Encoded

    $successor = $soa->serial( YYYYMMDDxx );

The 32 bit value returned by the auxiliary YYYYMMDDxx() function will be used if it satisfies the ordering constraint, otherwise the existing serial number will be incremented as above.

Serial number increments must be limited to 100 per day for the date information to remain useful.
=head2 Time Encoded

$succesor = $soa->serial( time );

The 32 bit value returned by the perl CORE::time() function will be used if it satisfies the serial number ordering constraint, otherwise the existing value will be incremented as above.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1035 Section 3.3.13, RFC1982

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/SOA.pm
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=head1 NAME

Net::DNS::RR::EID - DNS EID resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Endpoint Identifier (EID) resource records.

=head1 METHODS
Returns the length of the record's data section.

Returns the record's data section as binary data.

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SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
draft-ietf-nimrod-dns-I<xx>.txt

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NAME

Net::DNS::RR::HINFO - DNS HINFO resource record

SYNOPSIS

C<use Net::DNS::RR;>

DESCRIPTION

Class for DNS Host Information (HINFO) resource records.

METHODS
print "cpu = ", $rr->cpu, "\n";

Returns the CPU type for this RR.

print "os = ", $rr->os, "\n";

Returns the operating system type for this RR.

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SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.2

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=head1 NAME

Net::DNS::RR::OPT - DNS OPT

=head1 SYNOPSIS

C<use Net::DNS::RR;>

=head1 DESCRIPTION

Class for EDNS pseudo resource record OPT.

=head1 METHODS

This object should only be used inside the Net::DNS classes itself.

=head2 new

Since "OPT" is a pseudo record and should not be stored in masterfiles; Therefore we have not implemented a method to create this RR from string.

One may create the object from a hash. See RFC 2671 for details for the meaning of the hash keys.

$rr= Net::DNS::RR->new (  
    name => "",                # Ignored and set to ""
    type => "OPT",            
    class => 1024,             # sets UDP payload size
    extendedrcode => 0x00,    # sets the extended RCODE 1 octets
    ednsflags     => 0x0000,  # sets the ednsflags (2octets)
    optioncode   => 0x0,      # 2 octets
    optiondata   => 0x0       # optionlength octets
);

The ednsversion is set to 0 for now. The ttl value is determined from the extendedrcode, the ednsversion and the ednsflag.  
The rdata is constructed from the optioncode and optiondata see section 4.4 of RFC 2671

If optioncode is left undefined then we do not expect any RDATA.

The defaults are no rdata.

=head2 do, set_do, clear_do
$opt->set_do;

Reads, sets and clears the do flag. (first bit in the ednssflags);

=head2 size

$opt->size(1498);
print "Packet size: ". $opt->size();

Sets or gets the packet size.

=head1 TODO

- This class is tailored to use with dnssec.

- Do some range checking on the input.

- This class probably needs subclasses once OPTION codes start to be defined.

- look at use of extended labels

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=head1 NAME

Net::DNS::RR::MR - DNS MR resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>::

=head1 DESCRIPTION

Class for DNS Mail Rename (MR) resource records.

=head1 METHODS

=head2 newname

    print "newname = ", $rr->newname, "\n";

Returns the RR's new name field.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.8

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=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/MR.pm

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=head1 EXAMPLES

The first example below shows a complete program; subsequent examples show only the creation of the update packet.

=head2 Add a new host

#!/usr/bin/perl -w

use strict;
use Net::DNS;

# Create the update packet.
my $update = Net::DNS::Update->new('example.com');

# Prerequisite is that no A records exist for the name.
$update->push(prerequisite => nxrset('foo.example.com. A'));

# Add two A records for the name.
$update->push(update => rr_add('foo.example.com. 86400 A 192.168.1.2'));
$update->push(update => rr_add('foo.example.com. 86400 A 172.16.3.4'));

# Send the update to the zone's primary master.
my $res = Net::DNS::Resolver->new;
$res->nameservers('primary-master.example.com');

my $reply = $res->send($update);

# Did it work?
if ($reply) {
    my $rcode = $reply->header->rcode;
    print 'Update ', $rcode eq 'NOERROR' ? "succeeded
" : "failed: $rcode
";
} else {
    print 'Update failed: ', $res->errorstring, "\n"

} =head2 Add an MX record for a name that already exists

my $update = Net::DNS::Update->new('example.com');
$update->push(prerequisite => yxdomain('example.com'));
$update->push(update => rr_add('example.com MX 10 mailhost.example.com'));
=head2 Add a TXT record for a name that doesn't exist

my $update = Net::DNS::Update->new('example.com');
$update->push(prerequisite => nxdomain('info.example.com'));
$update->push(update => rr_add('info.example.com TXT "yabba dabba doo\""'));

=head2 Delete all A records for a name

my $update = Net::DNS::Update->new('example.com');
$update->push(prerequisite => yxrrset('foo.example.com A'));
$update->push(update => rr_del('foo.example.com A'));

=head2 Delete all RRs for a name

my $update = Net::DNS::Update->new('example.com');
$update->push(prerequisite => yxdomain('byebye.example.com'));
$update->push(update => rr_del('byebye.example.com'));

=head2 Perform a signed update

my $key_name = 'tsig-key';
my $key_data = 'awwLOtRfpGE+rRKF2+DEiw==';

my $update = Net::DNS::Update->new('example.com');
$update->push(update => rr_add('foo.example.com A 10.1.2.3'));
$update->push(update => rr_add('bar.example.com A 10.4.5.6'));
$update->sign_tsig($key_name, $key_data);

=head2 Another way to perform a signed update

my $key_name = 'tsig-key';
my $key_data = 'awwLOtRfpGE+rRKF2+DEiw==';

my $update = Net::DNS::Update->new('example.com');
$update->push(update => rr_add('foo.example.com A 10.1.2.3'));
$update->push(update => rr_add('bar.example.com A 10.4.5.6'));
$update->push(additional => Net::DNS::RR->new("$key_name TSIG $key_data"));

=head2 Perform a signed update with a customized TSIG record

my $key_name = 'tsig-key';
my $key_data = 'awwLOtRfpGE+rRKF2+DEiw==';

my $tsig = Net::DNS::RR->new("$key_name TSIG $key_data");
$tsig->fudge(60);

my $update = Net::DNS::Update->new('example.com');
$update->push(update => rr_add('foo.example.com A 10.1.2.3'));
$update->push(update => rr_add('bar.example.com A 10.4.5.6'));
$update->push(additional => $tsig);

=head1 BUGS

WARNING: This code is still under development. Please use with caution on production nameservers.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Header>, L<Net::DNS::Packet>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 2136, RFC 2845

cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/Update.pm
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=head1 NAME

Net::DNS::RR::LOC - DNS LOC resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS Location (LOC) resource records. See RFC 1876 for details.
=head1 METHODS

=head2 version

    print "version = ", $rr->version, "\n";

Returns the version number of the representation; programs should always check this. C<Net::DNS> currently supports only version 0.

=head2 size

    print "size = ", $rr->size, "\n";

Returns the diameter of a sphere enclosing the described entity, in centimeters.

=head2 horiz_pre

    print "horiz_pre = ", $rr->horiz_pre, "\n";

Returns the horizontal precision of the data, in centimeters.

=head2 vert_pre

    print "vert_pre = ", $rr->vert_pre, "\n";

Returns the vertical precision of the data, in centimeters.

=head2 latitude

    print "latitude = ", $rr->latitude, "\n";

Returns the latitude of the center of the sphere described by the C<size> method, in thousandths of a second of arc. 2**31 represents the equator; numbers above that are north latitude.

=head2 longitude

    print "longitude = ", $rr->longitude, "\n";

Returns the longitude of the center of the sphere described by the C<size> method, in thousandths of a second of arc. 2**31 represents the prime meridian; numbers above that are east longitude.

=head2 latlon

    ($lat, $lon) = $rr->latlon;

($lat, $lon) = $rr->latlon;
system("xearth", "-pos", "fixed $lat $lon");

Returns the latitude and longitude as floating-point degrees. Positive numbers represent north latitude or east longitude; negative numbers represent south latitude or west longitude.

=head2 altitude

    print "altitude = ", $rr->altitude, "\n";

Returns the altitude of the center of the sphere described by the C<size> method, in centimeters, from a base of 100,000m below the WGS 84 reference spheroid used by GPS.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1876

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/LOC.pm
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=head1 NAME

Net::DNS::RR::PTR - DNS PTR resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;
Class for DNS Pointer (PTR) resource records.

=head1 METHODS

=head2 ptrdname

    print "ptrdname = ", $rr->ptrdname, ":n";

Returns the domain name associated with this record.

=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.12

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/PTR.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::PX - DNS PX resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

Class for DNS X.400 Mail Mapping Information (PX) resource records.
print "preference = ", $rr->preference, "\n";

Returns the preference given to this RR.

=head2 map822

print "map822 = ", $rr->map822, "\n";

Returns the RFC822 part of the RFC1327 mapping information.

=head2 mapx400

print "mapx400 = ", $rr->mapx400, "\n";

Returns the X.400 part of the RFC1327 mapping information.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC822, RFC 1327, RFC 2163

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/PX.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::SPF - DNS SPF resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION
This is a clone of the TXT record. This class therefore completely inherits all properties of the Net::DNS::RR::TXT class.

Please see the L<Net::DNS::RR::TXT> perldocumentation for details

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.14, RFC 4408

=cut

Found in path(s):
  */opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/SPF.pm

No license file was found, but licenses were detected in source scan.

Net::DNS - Perl DNS Resolver Module
=====================================

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1. DESCRIPTION

Net::DNS is a DNS resolver implemented in Perl. It allows the programmer to perform nearly any type of DNS query from a Perl script. For details and examples, please read the Net::DNS manual page.

To read about the latest features, see the Changes file. To find out about known bugs and to see what's planned for future versions, see the TODO file.

Net::DNS does not depend on any C libraries. However, if possible Net::DNS tries to link against a C-module (library) that is supplied with the code. This provides a notable speed increase.

The author invites feedback on Net::DNS. If there's something you'd like to have added, please let me know. If you find a bug, please send me the information described in the BUGS section below.

See http://www.net-dns.org/blog/ for announcements about Net::DNS.

2. AVAILABILITY

You can get the latest version of Net::DNS from the Comprehensive Perl Archive Network (CPAN) or from the module's homepage:

http://search.cpan.org/dist/Net-DNS/

or through

http://www.net-dns.org/

The following link will always be the current released version:

http://www.net-dns.org/download/Net-DNS-release.tar.gz

Additionally a subversion repository is made available through

http://www.net-dns.org/svn/net-dns/
The version on the "trunk" (http://www.net-dns.org/svn/net-dns/trunk) is the version that is targeted for next release.

Please note that the SVN version at any given moment may be broken.

3. PREREQUISITES

The availability of prerequisites for Net::DNS is tested at installation time. These are the core packages that need to be available.

Test::More
IO::Socket
MIME::Base64
Digest::MD5
Digest::HMAC_MD5

For IPv6 support you will need Socket6 and IO::Socket::INET6. The availability of these is tested at runtime.

You can obtain the latest version of Perl from:

http://www.cpan.org/src/

Some of the demonstration and contributed scripts may require additional modules -- see demo/README and contrib/README for details.

Note that the Test::More module is actually part of the Test-Simple distribution. See the FAQ (lib/Net/DNS/FAQ.pod) for more information.

Net::DNS is mostly developed on MacOS X. I have access to Linux, FreeBSD and if need be to cygwin.

4. INSTALLATION

Please install any modules mentioned in the PREREQUISITES section above. If you don't, Net::DNS won't work. When you run "perl Makefile.PL", Perl should complain if any of the required modules are missing.

To build this module, run the following commands:
perl Makefile.PL
make
test
install

Net::DNS can optionally link with a included C module. This speeds up parts of the packet parsing process. The Makefile.PL script will attempt to determine if the C module can be used. To override Makefile.PL's guess, use the '--xs' option to force linking the library:

perl Makefile.PL --xs

Use the '--noxs' option to use the pure perl version:

perl Makefile.PL --noxs

If you wish to not run the online tests, the '--no-online-tests' option can be used. Similarly, '--online-tests' will enable the online tests. Online tests will be run by default, but the result will not negatively affect the outcome of test suite.

Also, if you wish to not run the IPv6 tests, the '--no-IPv6-tests' option can be used. Similarly, '--IPv6-tests' will enable the IPv6 tests.

5. RUNNING TESTS

If any of the tests fail, please contact the author with the output from the following command:

`make test TEST_VERBOSE=1`

6. DEMONSTRATION SCRIPTS

There are a few demonstration scripts in the demo/ directory -- see demo/README for more information. Contributed scripts are in the contrib/ directory -- see contrib/README.

The author would be happy to include any contributed scripts in future versions of this module. All I ask is that they be documented (preferably using POD) and that the contributor's name and contact information be mentioned somewhere.
7. DYNAMIC UPDATES

Net::DNS supports DNS dynamic updates as documented in RFC 2136; for more information and examples, please see the Net::DNS::Update manual page.

Please note that there are some bugs in the BIND 8.1-REL nameserver that can cause it to dump core when receiving certain dynamic updates, so if you have problems using Net::DNS that might be the cause. If you're running BIND 9, you should be using the latest version available from the Internet Software Consortium (ISC, www.isc.org) or from your OS vendor. As of this writing, the latest production version of BIND 9 available from the ISC is 9.3.1 (with 9.3.2 at the horizon).

Here's a summary of the update semantics for those interested (see RFC 2136 for details):

---

<table>
<thead>
<tr>
<th># RRs</th>
<th>NAME</th>
<th>TTL</th>
<th>CLASS</th>
<th>TYPE</th>
<th>RDLENGTH</th>
<th>RDATA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>yxxrset</td>
<td>1 name</td>
<td>0</td>
<td>ANY</td>
<td>type</td>
<td>0</td>
<td>empty</td>
</tr>
<tr>
<td>yxxrset</td>
<td>1+ name</td>
<td>0</td>
<td>class</td>
<td>type</td>
<td>rdlength</td>
<td>rdata</td>
</tr>
<tr>
<td>nxxrset</td>
<td>1 name</td>
<td>0</td>
<td>NONE</td>
<td>type</td>
<td>0</td>
<td>empty</td>
</tr>
<tr>
<td>yxdomain</td>
<td>1 name</td>
<td>0</td>
<td>ANY</td>
<td>ANY</td>
<td>0</td>
<td>empty</td>
</tr>
<tr>
<td>nxdomain</td>
<td>1 name</td>
<td>0</td>
<td>NONE</td>
<td>ANY</td>
<td>0</td>
<td>empty</td>
</tr>
</tbody>
</table>

---

8. SIGNED QUERIES & UPDATES

As of version 0.15, Net::DNS supports the TSIG resource record to perform signed queries and updates (see RFC 2845). See the Net::DNS::Packet and Net::DNS::Update manual pages for examples.

If you're using the BIND nameserver, the BIND FAQ shows how to
generate keys and configure the nameserver to use them:


TSIG support is new and isn't yet complete. Please use with caution on production systems. Feedback on TSIG functionality would be most welcome.

9. DNSSEC
-------

The extensions to make Net::DNS DNSSEC-aware are distributed separately as Net::DNS::SEC. The package is available from CPAN. Because of its dependency on Crypt::OpenSSL and other not-so-standard libraries, it is distributed as a separate package.

10. BUGS
--------

Net::DNS, while over fourteen years old, is still under development and is sure to contain a few bugs. Please see the TODO and Changes files for more information.

I recommend that you exercise caution when using Net::DNS to maintain a production nameserver via dynamic updates. Always test your code *thoroughly*. The Net::DNS author accepts no blame if you corrupt your zone. That warning in place, I am aware of at least one large company that has used Net::DNS to make thousands of dynamic updates per day for nearly three years without any problems.

Please use the following form to submit bug reports:


If you find a bug, please report it in "rt.cpan.org" along with the following information:

* version of Perl (output of `perl -V` is best)
* version of Net::DNS
* operating system type and version
* version of nameserver (if known)
* exact text of error message or description of problem
* the shortest possible program that exhibits the problem
* the specific queries you're making, if the data is available to Internet nameservers
If I don't have access to a system similar to yours, I may ask you to insert some debugging lines and report back on the results. The more help and information you can provide, the better.

11. COPYRIGHT
-------------

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12. AUTHOR INFORMATION
----------------------

Net::DNS is currently maintained at NLnet Labs (www.nlnetlabs.nl) by:
   Olaf Kolkman and his team.
   olaf at net-dns.org

Between 2002 and 2004 Net::DNS was maintained by:
   Chris Reinhardt

Net::DNS was created by:
   Michael Fuhr
   mike at fuhr.org

13. STAYING TUNED
-----------------

http://www.net-dns.org is a web site dedicated to the development of Net::DNS. Announcements about Net::DNS and Net::DNS::SEC will be done through the Net::DNS weblog at http://www.net-dns.org/blog/. An RSS feed for the weblog is available.

If you want to have access to the latest and greatest code a subversion repository is made available through

http://www.net-dns.org/svn/net-dns/
The version on the "trunk" (http://www.net-dns.org/svn/net-dns/trunk) is the version that is targeted for next release.

Please note that code from the SVN repositories trunk and development branches may be broken at any time.

14. ACKNOWLEDGMENTS

Thanks to Mike for letting me take care of his baby.

Thanks to Chris for maintaining Net::DNS for a couple of years.

Thanks to Rob Brown and Dick Franks for all their patches and input.

Thanks to all who have used Net::DNS and reported bugs, made suggestions, contributed code, and encouraged me to add certain features. Many of these people are mentioned by name in the Changes and TODO files; lack of mention should be considered an oversight and not a conscious act of omission.

Thanks to Larry Wall and all who have made Perl possible.

Thanks to Paul Albitz and Cricket Liu for allowing me [OK: that's Mike] to write the Net::DNS section in the programming chapter of _DNS and BIND_, 3rd Edition. This chapter in earlier editions was very helpful while I was developing Net::DNS, and I was proud to contribute to it.

Thanks to Paul Vixie and all who have worked on the BIND nameserver, which I've used exclusively while developing Net::DNS.

Thanks to Andreas Gustafsson for DNAME support, and for all the work he has done on BIND 9.

Olaf acknowledges the RIPE NCC for allowing Net::DNS maintenance to take place as part of 'the job'.

Thanks to the team that maintains wireshark. Without its marvelous interface, debugging of bugs in wireformat would be so much more difficult.

Thanks to the thousands who participate in the open-source community. I've always developed Net::DNS using open-source systems and I'm proud to make Net::DNS freely available to the world.
NAME

Net::DNS::RR::CNAME - DNS CNAME resource record

SYNOPSIS

C<use Net::DNS::RR>;

DESCRIPTION

Class for DNS Canonical Name (CNAME) resource records.

METHODS

cname

print "cname = ", $rr->cname, "\n";

Returns the RR's canonical name.

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SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.1
No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::RR::IPSECKEY - DNS DHCPD resource record

=head1 SYNOPSIS

C<use Net::DNS::RR>;

=head1 DESCRIPTION

CLASS for the DHCPD RR.

=head1 METHODS

=head2 identifiertype

Returns the value of the identifiertype field.

=head2 identifiertype

Returns the value of the digesttype field.

=head2 digest

Returns the value of the digest in base64 encoding.

=head2 digestbin

Returns the value of the digest.

=head1 TODO/NOTES

While the various accessor methods can be used to read and set values the setting of values is discouraged as those are not properly tested.

There should be a creator method that takes the identifier and fqdns as input and generates all fields with some knowledge of RFC4703.

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=head1 SEE ALSO
NAME
Net::DNS::RR::NULL - DNS NULL resource record

SYNOPSIS
C<use Net::DNS::RR>;

DESCRIPTION
Class for DNS Null (NULL) resource records.

METHODS

rdlength
print "rdlength = ", $rr->rdlength, "\n";
Returns the length of the record's data section.

rdata
$rdata = $rr->rdata;
Returns the record's data section as binary data.

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SEE ALSO
L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
RFC 1035 Section 3.3.10

cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/NULL.pm
No license file was found, but licenses were detected in source scan.

NAME

Net::DNS::RR::ISDN - DNS ISDN resource record

SYNOPSIS

C<use Net::DNS::RR>;

DESCRIPTION

Class for DNS ISDN resource records.

METHODS

address

print "address = ", $rr->address, "\n";

Returns the RR's address field.

sa

print "subaddress = ", $rr->sa, "\n";

Returns the RR's subaddress field.

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it and/or modify it under the same terms as Perl itself.

SEE ALSO
L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1183 Section 3.2

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-0.68/lib/Net/DNS/RR/ISDN.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Net::DNS::RR::SSHFP - DNS SSHFP resource record

=head1 SYNOPSIS
C<use Net::DNS::RR;>

=head1 DESCRIPTION
Class for Delegation signer (SSHFP) resource records.

=head1 METHODS
In addition to the regular methods

=head2 algorithm

print "algorithm" = ", $rr->algorithm, "\n";

Returns the RR's algorithm field in decimal representation

1 = RSA
2 = DSS

=head2 fingerprint

print "fingerprint" = "", $rr->fingerprint, "\n";

Returns the SHA1 fingerprint over the label and key in hexadecimal representation.

=head2 fpbin
$fpbin = $rr->fpbin;

Returns the fingerprint as binary material.

=head2 fptype

    print "fingerprint type" . " = " . $rr->fptype . "\n";

Returns the fingerprint type of the SSHFP RR.

=head2 babble

    print $rr->babble;

If Digest::BubbleBabble is available on the system this method returns the 'BabbleBubble' representation of the fingerprint. The 'BabbleBubble' string may be handy for telephone confirmation.

The 'BabbleBubble' string returned as a comment behind the RDATA when the string method is called.

The method returns an empty string if Digest::BubbleBable is not installed.

=head1 TODO

=head1 ACKNOWLEDGEMENT

Jakob Schlyter for code review and supplying patches.

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=head1 SEE ALSO

L<perl(1)>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
draft-ietf-dnssext-delegation-signer

=cut

Found in path(s):
* /opt/cola/permits/1135380874_1613505098.67/0/libnet-dns-perl-0-68-orig-1-tar-gz/Net-DNS-
1.2333 python-jsonpatch 1.3-4

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1.2334 sed 4.2.2-4ubuntu1

1.2334.1 Available under license:

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Version 3, 29 June 2007

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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

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- common_audio/signal_processing/spl_sqrt_floor_arm.S
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- modules/audio_coding/codecs/g711/main/source/g711.h
- modules/audio_coding/codecs/g722/main/source/g722_decode.c
- modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
- modules/audio_coding/codecs/g722/main/source/g722_encode.c
- modules/audio_coding/codecs/iscac/main/source/fft.c
- modules/audio_device/mac/portaudio/pa_memorybarrier.h
- modules/audio_device/mac/portaudio/pa_ringbuffer.c
- modules/audio_device/mac/portaudio/pa_ringbuffer.h
- modules/audio_processing/aec/aec_rdft.c
- modules/audio_processing/utility/fft4g.c
- system_wrappers/interface/scoped_ptr.h
- system_wrappers/source/condition_variable_event_win.cc
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common_audio/signal_processing/spl_sqrt_floor_arm.S

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 *
 * From: Wilco Dijkstra <wilco.dijkstra@ntlworld.com>
 * Date: Fri, Jun 24, 2011 at 3:20 AM
 */
Subject: Re: sqrt routine
To: Kevin Ma <kma@google.com>
Hi Kevin,
Thanks for asking. Those routines are public domain (originally posted to comp.sys.arm a long time ago), so you can use them freely for any purpose.
Cheers,
Wilco

----- Original Message -----
From: "Kevin Ma" <kma@google.com>
To: <Wilco.Dijkstra@ntlworld.com>
Sent: Thursday, June 23, 2011 11:44 PM
Subject: Fwd: sqrt routine
Hi Wilco,
I saw your sqrt routine from several web sites, including http://www.finesse.demon.co.uk/steven/sqrt.html.
Just wonder if there's any copyright information with your Successive approximation routines, or if I can freely use it for any purpose.
Thanks.
Kevin
/

---
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modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

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/*
* SpanDSP - a series of DSP components for telephony
* g711.h - In line A-law and u-law conversion routines
* Written by Steve Underwood <steveu@coppice.org>
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*/
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modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_encode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h

License:
/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g722_decode.c - The ITU G.722 codec, decode part.
 *
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 *
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 *
 * Based in part on a single channel G.722 codec which is:
 *
 * Copyright (c) CMU 1993
 * Computer Science, Speech Group
 * Chengxiang Lu and Alex Hauptmann
 */

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modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:
/*
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
 * Portable Audio I/O Library
 * Memory barrier utilities
 *
 * Author: Bjorn Roche, XO Audio, LLC
 *
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 * For more information see: http://www.portaudio.com
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/*
 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
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*/

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Version 2.1, February 1999

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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a purpose that is entirely well-defined independent of the
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This option is useful when you wish to copy part of the code of
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices”.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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PLY (Python Lex-Yacc)                   Version 3.4

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- libpostproc
- libmpcodecs
- optional x86 optimizations in the files
  libavcodec/x86/flac_dsp_gpl.asm
  libavcodec/x86/idct_mmx.c
- libutvideo encoding/decoding wrappers in
  libavcodec/libutvideo*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in
  libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f_ebur128.c
  - vf_blackframe.c
  - vf_boxblur.c
  - vf_colormatrix.c
  - vf_cropdetect.c
  - vf_decimate.c
  - vf_delogo.c
  - vf_geq.c
  - vf_histeq.c
  - vf_hqdn3d.c
  - vf_interlace.c
  - vf_kerndeint.c
  - vf_mdeint.c
  - vf_mp.c
  - vf_owddenoise.c
  - vf_perspect.c
  - vf_phase.c
  - vf_pp.c
  - vf_pullup.c
  - vf_sab.c
  - vf_smartblur.c
  - vf_spp.c
  - vf_stereo3d.c
  - vf_super2xsai.c
  - vf_tinterlace.c
  - vsr_c_mptestsfr.c
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* The files libavcodec/jfdctfst.c, libavcodec/jfdctint_template.c and libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

external libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

compatible libraries

The following libraries are under GPL:
- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing --enable-gpl to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing --enable-version3 to configure.

incompatible libraries

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i inclusion of support for JNG and Full-Color-Management respectively. * */
* */ This library's function is primarily to read and display MNG * */
* */ animations. It is not meant as a full-featured image-editing * */
* */ component! It does however offer creation and editing functionality * */
* */ at the chunk level. * */
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* */
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Dr. Memory: the memory debugger

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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*
* @(#)mman.h      8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800  /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


/*-.
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*
* @(#)mman.h 8.2 (Berkeley) 1/9/95
*
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

/* To attribute this file to Ted Unrau, use $Id: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp $ */

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* @(#)mman.h     8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100  /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

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#define TARGET_EPERM 1               /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET.EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET.ENOTDIR 20 /* Not a directory */
#define TARGET.EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET.ENFILE 23 /* Too many open files in system */
#define TARGET.EMFILE 24 /* Too many open files */
#define TARGET.ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET.ETXTBSY 26 /* Text file busy */
#define TARGET.EFBIG 27 /* File too large */
#define TARGET.ESPIPE 28 /* No space left on device */
#define TARGET.ESPIPE 29 /* Illegal seek */
#define TARGET.EPROTOTYPE 30 /* Read-only file system */
#define TARGET.EMLINK 31 /* Too many links */
#define TARGET.EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET.ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET.EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET.EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET.EINPROGRESS 36 /* Operation now in progress */
#define TARGET.EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET.ENOTSOC 38 /* Socket operation on non-socket */
#define TARGET.EDESTADDRREQ 39 /* Destination address required */
#define TARGET.EMSGSIZE 40 /* Message too long */
#define TARGET.EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUF 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ENOTEMPTY 58 /* Directory not empty */
#define TARGET_EHOSTDOWN 59 /* Host is down */
#define TARGET_EHOSTUNREACH 60 /* No route to host */
#define TARGET_ENOTEMPTY 61 /* Directory not empty */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($ (SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $ (MAKE) -C $ $(subdir) ] exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $ (MAKE) -C $ $(subdir) $ @ ; done
/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
* System call numbers.
*
* created from;       OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NRUnmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigsuspend 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 62
#define TARGET_OPENBSD_NR_sbrk 63
#define TARGET_OPENBSD_NR_sstk 64
#define TARGET_OPENBSD_NR_munmap 65
#define TARGET_OPENBSD_NR_mprotect 66
#define TARGET_OPENBSD_NR_madvise 67
#define TARGET_OPENBSD_NR_mincore 68
#define TARGET_OPENBSD_NR_getgroups 69
#define TARGET_OPENBSD_NR_setgroups 70
#define TARGET_OPENBSD_NR_getpgrp 71
#define TARGET_OPENBSD_NR_setpgid 72
#define TARGET_OPENBSD_NR_setitimer 73
#define TARGET_OPENBSD_NR_getitimer 74
#define TARGET_OPENBSD_NR_dup2 75
#define TARGET_OPENBSD_NR_fcntl 76
#define TARGET_OPENBSD_NR_select 77
#define TARGET_OPENBSD_NR_fsync 78
#define TARGET_OPENBSD_NR_setpriority 79
#define TARGET_OPENBSD_NR_socket 80
#define TARGET_OPENBSD_NR_connect 81
#define TARGET_OPENBSD_NR_getpriority 82
#define TARGET_OPENBSD_NR_sigreturn 83
#define TARGET_OPENBSD_NR_bind 84
#define TARGET_OPENBSD_NR_setsockopt 85
#define TARGET_OPENBSD_NR_listen 86
#define TARGET_OPENBSD_NR_sigsuspend 87
#define TARGET_OPENBSD_NR_gettimeofday 88
#define TARGET_OPENBSD_NR_getrusage 89
#define TARGET_OPENBSD_NR_getsockopt 90
#define TARGET_OPENBSD_NR_readv 91
#define TARGET_OPENBSD_NR_writev 92
#define TARGET_OPENBSD_NR_settimeofday 93
#define TARGET_OPENBSD_NR_gettimeofday 94
#define TARGET_OPENBSD_NR_getsockopt 95
#define TARGET_OPENBSD_NR_readv 96
#define TARGET_OPENBSD_NR_writev 97
#define TARGET_OPENBSD_NR_setsockopt 98
#define TARGET_OPENBSD_NR_getsockopt 99
#define TARGET_OPENBSD_NR_readv 100
#define TARGET_OPENBSD_NR_writev 101
#define TARGET_OPENBSD_NR_setsockopt 102
#define TARGET_OPENBSD_NR_getsockopt 103
#define TARGET_OPENBSD_NR_readv 104
#define TARGET_OPENBSD_NR_writev 105
#define TARGET_OPENBSD_NR_setsockopt 106
#define TARGET_OPENBSD_NR_getsockopt 107
#define TARGET_OPENBSD_NR_readv 108
#define TARGET_OPENBSD_NR_writev 109
#define TARGET_OPENBSD_NR_setsockopt 110
#define TARGET_OPENBSD_NR_getsockopt 111
#define TARGET_OPENBSD_NR_readv 112
#define TARGET_OPENBSD_NR_writev 113
#define TARGET_OPENBSD_NR_setsockopt 114
#define TARGET_OPENBSD_NR_getsockopt 115
#define TARGET_OPENBSD_NR_readv 116
#define TARGET_OPENBSD_NR_writev 117
#define TARGET_OPENBSD_NR_setsockopt 118
#define TARGET_OPENBSD_NR_readv 119
#define TARGET_OPENBSD_NR_writev 120
#define TARGET_OPENBSD_NR_setsockopt 121
#define TARGET_OPENBSD_NR_getsockopt 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segeclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_mmsgnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR_semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR_adjfreq 304
#define TARGET_OPENBSD_NR_adjfsstat 306
/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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/* */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */

# define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400
# define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800

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ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I./include -I./include/x86emu \ 
    -I$(TOP)/clients/net-snker/include -I$(ROOTDIR)/include \ 
    -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
    -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@  $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^  
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean

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/* 
   * System call numbers.
   *
   * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
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# tag: General Public License text
#
    License

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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_setlogin 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_getpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmesg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockopt */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___syscall 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR__undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgsnd 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308

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#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
  /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
  /* 322 is obsolete thr_sleep */
  /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file  357
#define TARGET_FREEBSD_NR_extattr_delete_file  358
#define TARGET_FREEBSD_NR_aio_waitcomplete  359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue    362
#define TARGET_FREEBSD_NR_kevent    363
#define TARGET_FREEBSD_NR_extattr_set_fd    371
#define TARGET_FREEBSD_NR_extattr_get_fd    372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess   376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount    378
#define TARGET_FREEBSD_NR___mac_get_proc    384
#define TARGET_FREEBSD_NR___mac_set_proc  385
#define TARGET_FREEBSD_NR___mac_get_fd  386
#define TARGET_FREEBSD_NR___mac_get_file  387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file  389
#define TARGET_FREEBSD_NR_kenv    390
#define TARGET_FREEBSD_NR_lchflags    391
#define TARGET_FREEBSD_NR_uuidgen    392
#define TARGET_FREEBSD_NR_sendfile    393
#define TARGET_FREEBSD_NR_mac_syscall    394
#define TARGET_FREEBSD_NR_getfsstat    395
#define TARGET_FREEBSD_NR_fstatfs    396
#define TARGET_FREEBSD_NR_fhstatfs    397
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post  401
#define TARGET_FREEBSD_NR_ksem_wait  402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init  404
#define TARGET_FREEBSD_NR_ksem_open    405
#define TARGET_FREEBSD_NR_ksem_unlink    406
#define TARGET_FREEBSD_NR_ksem_getvalue    407
#define TARGET_FREEBSD_NR_ksem_destroy    408
#define TARGET_FREEBSD_NR___mac_get_pid  409
#define TARGET_FREEBSD_NR___mac_get_link  410
#define TARGET_FREEBSD_NR___mac_set_link  411
#define TARGET_FREEBSD_NR_extattr_set_link    412
#define TARGET_FREEBSD_NR_extattr_get_link    413
#define TARGET_FREEBSD_NR_extattr_delete_link    414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction    416
#define TARGET_FREEBSD_NR_sigreturn    417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR__semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_entry 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

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David Gibson <david@gibson.dropbear.id.au>
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2 November 2007
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived</th>
<th>Year</th>
<th>Owner</th>
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from                          compatible? (1)

0.9.0 thru 1.2  1991-1995  CWI    yes
1.3 thru 1.5.2  1.2      1995-1999  CNRI  yes
1.6      1.5.2    2000    CNRI    no
2.0      1.6      2000    BeOpen.com  no
1.6.1     1.6      2001    CNRI    yes (2)
2.1   2.0+1.6.1   2001    PSF    no
2.0.1   2.0+1.6.1   2001    PSF    yes
2.1.1   2.1+2.0.1   2001    PSF    yes
2.2   2.1.1      2001    PSF    yes
2.1.2   2.1.1      2002    PSF    yes
2.1.3   2.1.2      2002    PSF    yes
2.2.1   2.2        2002    PSF    yes
2.2.2   2.2.1      2002    PSF    yes
2.2.3   2.2.2      2003    PSF    yes
2.3   2.2.2      2002-2003  PSF    yes
2.3.1   2.3        2002-2003  PSF    yes
2.3.2   2.3.1      2002-2003  PSF    yes
2.3.3   2.3.2      2002-2003  PSF    yes
2.3.4   2.3.3      2004    PSF    yes
2.3.5   2.3.4      2005    PSF    yes
2.4   2.3        2004    PSF    yes
2.4.1   2.4        2005    PSF    yes
2.4.2   2.4.1      2005    PSF    yes
2.4.3   2.4.2      2006    PSF    yes
2.5   2.4        2006    PSF    yes
2.7   2.6        2010    PSF    yes

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table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does not fall under the heading of "derived work".

-- Wolfgang Denk

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RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
    sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -000001.1
+++ ops2.c 20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
+      M.x86.R_IP = (u16)target;
+      JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+/*%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%**/
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%**/
+s32 x86emu_bswap(s32 reg)
+{
+  // perform the byte swap
+  s32 temp = reg;
+  reg = (temp & 0xFF000000) >> 24;
+  reg |= (temp & 0xFF0000) >> 8;
+  reg |= (temp & 0xFF00) << 8;
+  reg |= (temp & 0xFF) << 24;
+  return reg;
+}
+void x86emuOp2_bswap(u8 op2)
+{
+  /* byte swap 32 bit register */
+  START_OF_INSTR();
+  DECODE_PRINTF("BSWAP\n");
+  switch (op2) {
+    case 0xc8:
+      DECODE_PRINTF("EAX\n");
+      M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+      break;
+ case 0xc9:
+   DECODE_PRINTF("ECX\n");
+   M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+   break;
+ case 0xca:
+   DECODE_PRINTF("EDX\n");
+   M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+   break;
+ case 0xcb:
+   DECODE_PRINTF("EBX\n");
+   M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+   break;
+ case 0xcc:
+   DECODE_PRINTF("ESP\n");
+   M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+   break;
+ case 0xcd:
+   DECODE_PRINTF("EBP\n");
+   M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+   break;
+ case 0xce:
+   DECODE_PRINTF("ESI\n");
+   M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+   break;
+ case 0xcf:
+   DECODE_PRINTF("EDI\n");
+   M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+   break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
@ @ -1702.14 +1763.14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
/* 0xcb */ x86emuOp2_bswap,
/* 0xcc */ x86emuOp2_bswap,
/* 0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

Index: ops.c

===================================================================
RCS file: /cvs/osal/fcvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
  imm = (s8)fetch_byte_imm();
  DECODE_PRINTF2("PUSH\t%d\n", imm);
  TRACE_AND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    push_long(imm);
+ } else {
+    push_word(imm);
+ }
         DECODE_CLEAR_SEGOVR();
         END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
  target = (u16)(M.x86.R_IP + (s16)offset);
  DECODE_PRINTF2("%x\n", target);
  TRACE_AND_STEP();
- if (cond)
+ if (cond) {
   M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
         DECODE_CLEAR_SEGOVR();
         END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
  count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    // dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    + if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
cmp_byte(val1, val2);
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
{  
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            }
@@ -2655,11 +2674,16 @@
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
{  
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
    }
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
  }
+    M.x86.R_ECX = 0;
  inc = 1;
} else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
-     /* move them until CX is ZERO. */
-     count = M.x86.R_CX;
+     /* move them until (E)CX is ZERO. */
+     count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    while (count--) {
@@ -2795,6 +2826,8 @@
      store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
   }
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
+     break;
+
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2871,6 +2911,8 @@
M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
+    break;
+
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
+ M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
+ if (M.x86.intr & INTR_HALTED)
+    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        - M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;  /* zero flag set means equal */
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
}
+     M.x86.R_CX -= 1;
     M.x86.R_DI += inc;
     if (ACCESS_FLAG(F_ZF) == 0)
         break;
+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
     /* REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX, val);
+             M.x86.R_CX -= 1;
+             if (M.x86.mode & SYSMODE_32BIT_REP)
+                 M.x86.R_ECX -= 1;
+             else
+                 M.x86.R_CX -= 1;
             M.x86.R_DI += inc;
             if (ACCESS_FLAG(F_ZF))
                 break;          /* zero flag set means equal */
+             if (M.x86.intr & INTR_HALTED)
+                 break;
         }
         M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @@ -2977,10 +3034,15 @@
         val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_word(M.x86.R_AX, (u16)val);
     }
-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
     M.x86.R_DI += inc;
     if (ACCESS_FLAG(F_ZF))
         break;       /* zero flag set means equal */
+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
     DECODE_PRINTF("RET\t");
     imm = fetch_word_imm();
     DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACING_STEP();
     M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
     M.x86.R_SP += imm;
     DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
    }
    START_OF_INSTR();

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DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF	");
    imm = fetch_word_imm();
DECODE_PRINTF2("%x
", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETFu\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x
", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
      !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 & ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIXADDR)
+     M.x86.R ECX -= 1;
+ else
+     M.x86.R CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIXADDR) ? M.x86.R ECX : M.x86.R CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
M.x86.R IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIXADDR)
+     M.x86.R ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIXADDR) ? M.x86.R ECX : M.x86.R CX) != 0) /* (E)CX != 0 */
M.x86.R IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
    M.x86.R IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 +0100
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 {
 #ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

     *res_lo = (u32)res;
     *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
 void mul_long(u32 s)
 {
 #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
 }
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    -
        while (count--) {
            single_in(size);
            M.x86.R_DI += inc;
        }

     M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
         M.x86.R_ECX = 0;
     }
     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* out until CX is ZERO. */
    - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
    + /* out until (E)CX is ZERO. */
    + u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
    - if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    + if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c	7 Sep 2007 10:01:21 -0000	1.1
+++ sys.c	7 Sep 2007 10:03:13 -0000	1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifndef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
    DB(if (DEBUG_IO_TRACE()))
    printk("inb %#04x \n", addr);
    -return inb(addr);
    +return 0;
}

/*********************************************************************************/
@@ -235,7 +230,7 @@
{ 
DB(if (DEBUG_IO_TRACE()))
printk("inw %#04x \n", addr);
-return inw(addr);
+return 0;
}

/***************************************************************************/
@@ -250,7 +245,7 @@
{ 
DB(if (DEBUG_IO_TRACE()))
printk("inl %#04x \n", addr);
-return inl(addr);
+return 0;
}

/***************************************************************************/
@@ -264,7 +259,6 @@
{ 
DB(if (DEBUG_IO_TRACE()))
printk("outb %#02x -> %#04x \n", val, addr);
-outb(val, addr);
return;
}

@@ -279,7 +273,6 @@
{ 
DB(if (DEBUG_IO_TRACE()))
printk("outw %#04x -> %#04x \n", val, addr);
-outw(val, addr);
return;
}

@@ -295,7 +288,6 @@
{ 
DB(if (DEBUG_IO_TRACE()))
printk("outl %#08x -> %#04x \n", val, addr);
-outl(val, addr);
return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
-M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
M.mem_size = size;
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
 # define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
 # define DEBUG_TRACECALL()    (M.x86.debug & DEBUG_TRACECALL_F)
 # define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+## define DEBUG_TRACEJMP()    (M.x86.debug & DEBUG_TRACEJMP_F)
+## define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
 # define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
 # define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
 # define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
 # define DEBUG_SYSINT()        0
 # define DEBUG_TRACECALL()    0
 # define DEBUG_TRACECALLREGS() 0
+## define DEBUG_TRACEJMP()    0
+## define DEBUG_TRACEJMPREGS() 0
 # define DEBUG_SYS()           0
 # define DEBUG_MEM_TRACE()     0
 # define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
 x86emu_dump_regs();               
 if (DEBUG_TRACECALL())           
 printf("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)      
+## define RETURN_TRACE(u,v,w,x,s)
 if (DEBUG_TRACECALLREGS())
 x86emu_dump_regs();               
 if (DEBUG_TRACECALL())           
-printf("%04x:%04x: %s\n",u,v,n);
+printf("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+## define JMP_TRACE(u,v,w,x,s)    


# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS      | \
SYSMODE_SEGOVR_SS      | \
SYSMODE_PREFIX_DATA    | \
- SYSMODE_PREFIX_ADDR    | \
+ SYSMODE_PREFIX_ADDR    | \
+ SYSMODE_32BIT_REP)
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
*/
int debug;
#ifdef DEBUG
-    volatile int check;
#endif
*/
"
+ int check;
+ u16 saved_ip;
+ u16 saved_cs;
+ int enc_pos;

Index: include/x86emu/x86emu.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -47,6 +47,7 @@
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}                       /* End of “C” linkage for C++ */
#endif
-#
#endif /* __X86EMU_X86EMU_H */
#
*************************************************************************
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# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
#*************************************************************************/
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...
if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

# revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."
mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."
rm -rf x86emu

echo "Patching files..."
$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0
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The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History
-------

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Developers that use the GNU GPL protect your rights with two steps:
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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.2343 libcroco 0.6.12-6.el7_9

1.2343.1 Available under license:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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4
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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modification of the work for the customer’s own use and reverse
engineering for debugging such modifications.

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of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user’s computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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## 1.2345.1 Available under license:

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Version 2.1, February 1999

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1.2347 pastebinit 1.4-3

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1.2349 libaio 0.3.109-13.el7

1.2350 spark 2.6.5.0 292
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# A. HISTORY OF THE SOFTWARE
# ===============

# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.

# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.

# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
# non-profit organization created specifically to own Python-related
# Intellectual Property. Zope Corporation is a sponsoring member of
# the PSF.

# All Python releases are Open Source (see http://www.opensource.org for
# the Open Source Definition). Historically, most, but not all, Python
# releases have also been GPL-compatible; the table below summarizes
# the various releases.

# Release   Derived Year  Owner   GPL-compatible? (1)
# from

# 0.9.0 thru 1.2  1991-1995  CWI     yes
# 1.3 thru 1.5.2  1.2  1995-1999  CNRI    yes
# 1.6  1.5.2  2000  CNRI     no
# 2.0  1.6  2000  BeOpen.com no
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This library contains efficient implementation of LZF compression format,
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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
fixes; these can be found from file "VERSION.txt" in SCM.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.2353 json-flattener 0.5.0

1.2354 systemd 215-17+deb8u7
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1.2355 perl-carp 1.26-244.el7

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---

abstract: 'alternative warn and die for modules'

author:
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build_requires:
 ExtUtils::MakeMaker: 0

configure_requires:
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dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'

license: perl

meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html

version: 1.4

name: Carp

no_index:
directory:
- t
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requires:
 Exporter: 0
 IPC::Open3: 1.0103
 Test::More: 0
 strict: 0
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version: 1.26

Found in path(s):
* /opt/cola/permits/1135855290_1613616277.4/0/perl-Carp-1.26-244.el7-1.src.rpm-cosi-expand-archive-
  uTFUuIOM/Carp-1.26.tar.gz-cosi-expand-archive-bamXpm7i/Carp-1.26/META.yml

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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPTIS

Open Source Used In Tetraton 3.5.1 24341
use Carp;

    # warn user (from perspective of caller)
    carp "string trimmed to 80 chars";

    # die of errors (from perspective of caller)
    croak "We're outta here!";

    # die of errors with stack backtrace
    confess "not implemented";

    # cluck not exported by default
    use Carp qw(cluck);
    cluck "This is how we got here!";

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use C<carp> or C<croak> which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from
packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C<@ISA> with C<@CARP_NOT>, then this trust relationship is identical to, "inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a chuck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. See the C<GLOBAL VARIABLES> section below.
GLOBAL VARIABLES

$Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of C<0> to show all text.

Defaults to C<0>.

$Carp::MaxArgLen

This variable determines how many characters of each argument to a function to print. Use a value of C<0> to show the full length of the argument.

Defaults to C<64>.

$Carp::MaxArgNums

This variable determines how many arguments to each function to show. Use a value of C<0> to show all arguments to a function call.

Defaults to C<8>.

$Carp::Verbose

This variable makes C<carp> and C<croak> generate stack backtraces just like C<cluck> and C<confess>. This is how C<use Carp 'verbose'> is implemented internally.

Defaults to C<0>.

@CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

# These work
our @CARP_NOT; # file scope
use vars qw(@CARP_NOT); # package scope
@My::Package::CARP_NOT = ... ; # explicit package variable

# These don't work
sub xyz [ ... @CARP_NOT = ... ] # w/o declarations above
my @CARP_NOT; # even at top-level

Example of use:

```perl
package My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar     { .... or _error('Wrong input') }
sub _error  {
    # temporary control of where'ness, __PACKAGE__ is implicit
    local @CARP_NOT = qw(My::Friendly::Caller);
    carp(@_)
}
```

This would make C<Carp> report the error as coming from a caller not in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L</DESCRIPTION> section above, about how C<Carp> decides where the error is reported from.

Use C:@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>'s use of C:@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never report an error as being from a line in a package that is internal to Perl. For example:

```perl
$Carp::Internal{ (__PACKAGE__) }++; # time passes...
sub foo { ... or confess("whatever") }
```

would give a full stack backtrace starting from the first caller outside of __PACKAGE__. (Unless that package was also internal to Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in C<%Carp::CarpInternal>. But it is slightly different for the summary message generated by C<carp> or C<croak>. There errors will not be reported on any lines that are calling packages in C<%Carp::CarpInternal>.
For example \texttt{C<Carp>} itself is listed in \texttt{C<%Carp::CarpInternal>}. Therefore the full stack backtrace from \texttt{C<confess>} will not start inside of \texttt{C<Carp>}, and the short message from calling \texttt{C<croak>} is not placed on the line where \texttt{C<croak>} was called.

\section*{$\texttt{Carp::CarpLevel}$}

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of \texttt{C<Carp>}'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that \texttt{C<Carp>} goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid \texttt{C<$Carp::CarpLevel$>}. Instead use \texttt{C<@CARP_NOT>}, \texttt{C<%Carp::Internal>} and \texttt{C<%Carp::CarpInternal>}. Defaults to \texttt{C<0>}.  

\section*{BUGS}

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call \texttt{die()} or \texttt{warn()}, as appropriate.

\section*{SEE ALSO}

\texttt{L<Carp::Always>}, \texttt{L<Carp::Clan>}

\section*{AUTHOR}

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) \texttt{<zefram@fysh.org>} divested Carp into an independent distribution.

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Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR

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1.2356 smartmontools 7.0-3.el7

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1.2357 bash-completion 2.1-8.el7

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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation...
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the FSF lawyers, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by Fluendo in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

Can someone distribute the combination of
<itemizedlist>
<li> Gst, the LGPL library
<li> MyPlayer, a GPL playback application
<li> The binary-only Sorenson decoder
</itemizedlist>
together in one distribution/operating system? If not, what needs to be changed to make this possible?
This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

Note: MyPlayer is a completely fictitious application at the time of writing.

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above. Can Apple distribute this binary-only plugin?

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in?
You may not distribute the plug-in with the GPL application.
Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway? If he/she visits the US, can he/she be arrested?

Yes, he can.
No, there are no criminal penalties for patent infringement in the US.

Can someone from the US distribute software covered by US patents under the GPL to people in Norway? To people in the US?

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement.
The US government is empowered to refuse importation of patent infringing devices, including software.
There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

The GPL and LGPL say (sections 7 and 11):

If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents?

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.
<question id="legal-gpl-and-binary">
  <para>
  Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?
  </para>
</question>

<answer>
  <para>
  No.
  </para>
</answer>

<question id="legal-gpl-patent-distribution">
  <para>
  Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3 ?
  </para>
</question>

<answer>
  <para>
  The only GPL-compatible patent licenses are those which are open to all parties posessing copies of GPL software which practices the teachings of the patent.
  </para>
  <para>
  If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.
  </para>
</answer>

1.2369 libipc-run-perl 0.92-1
1.2369.1 Available under license:

Terms of Perl itself

a) the GNU General Public License as published by the Free
   Software Foundation; either version 1, or (at your option) any
   later version, or
b) the "Artistic License"

---------------------------------------------------------------

The General Public License (GPL)
Version 2, June 1991

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Preamble

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guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to most of
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authors commit to using it. (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

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General Public Licenses are designed to make sure that you have the freedom
to distribute copies of free software (and charge for this service if you wish), that
you receive source code or can get it if you want it, that you can change the
software or use pieces of it in new free programs; and that you know you can do
these things.

To protect your rights, we need to make restrictions that forbid anyone to deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of the
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For example, if you distribute copies of such a program, whether gratis or for a
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you this license which gives you legal permission to copy, distribute and/or
modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such
modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source
code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.2371 audit 2.3.2 2ubuntu1

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1.2381 go-syslog 1.0.0

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1.2382 converter-jackson 2.5.0

1.2383 htop 1.0.2 3

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Version 2, June 1991

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1.2384 perl-encode-locale 1.03-5.el7

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* /opt/cola/permits/1111463514_1606928065.32/0/perl-Encode-Locale-1.03-5.el7-1.src.rpm-cosi-expand-archive-
=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

use Encode::Locale;
use Encode;

$string = decode(locale => $bytes);
$bytes = encode(locale => $string);

if (-t) {
    binmode(STDIN, ":encoding(console_in)");
    binmode(STDOUT, ":encoding(console_out)");
    binmode(STDERR, ":encoding(console_out)");
}

# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, "<", encode(locale_fs => $uni_filename)) ||
    die "Can't open '$uni_filename': $!";
    binmode($fh, ":encoding(locale)");
    ...

=head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The C<Encode::Locale> module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the L<Encode> module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling C<<
Encode::encode(locale => $bytes) >> and converted back again with C<<
Encode::decode(locale => $string) >>.

Where file systems interfaces pass file names in and out of the program we also
need care. The trend is for operating systems to use a fixed file encoding
that don't actually depend on the locale; and this module determines the most
appropriate encoding for file names. The L<Encode> module will know this
encoding under the name "locale_fs". For traditional Unix systems this will
be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems)
the "locale" encoding is usually a good choice for what to expect as input and
output. Some systems allows us to query the encoding set for the terminal and
C<Encode::Locale> will do that if available and make these encodings known
under the C<Encode> aliases "console_in" and "console_out". For systems where
we can't determine the terminal encoding these will be aliased as the same
encoding as "locale". The advice is to use "console_in" for input known to
come from the terminal and "console_out" for output known to go from the
terminal.

In addition to arranging for various Encode aliases the following functions and
variables are provided:

=over

=item decode_argv( )

=item decode_argv( Encode::FB_CROAK )

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.

The function will by default replace characters that can't be decoded by
"\x{FFFD}", the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call.
Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the
command line arguments can be decoded. See L<Encode/"Handling Malformed Data”>
for details on other options for CHECK.

=item env( $uni_key )

=item env( $uni_key => $uni_value )

Interface to get/set environment variables. Returns the current value as a
Unicode string. The $uni_key and $uni_value arguments are expected to be
Unicode strings as well. Passing C<undef> as $uni_value deletes the
environment variable named $uni_key.
The returned value will have the characters that can't be decoded replaced by "\x{FFFD}", the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for decode_argv(). If you need that you need to call encode/decode yourself. For example:

```perl
my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);
```

=item reinit( )

=item reinit( $encoding )

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.

With argument force $ENCODING__ variables to set to the given value.

=item $ENCODING_LOCALE

The encoding name determined to be suitable for the current locale. L<Encode> know this encoding as "locale".

=item $ENCODING_LOCALE_FS

The encoding name determined to be suiteable for file system interfaces involving file names. L<Encode> know this encoding as "locale_fs".

=item $ENCODING_CONSOLE_IN

=item $ENCODING_CONSOLE_OUT

The encodings to be used for reading and writing output to the a console. L<Encode> know these encodings as "console_in" and "console_out".

=back

=head1 NOTES

This table summarizes the mapping of the encodings set up by the C<Encode::Locale> module:

| Encode       |  |  |
|--------------|  |  |
Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16 strings) and a byte based API based a character set called ANSI. The regular Perl interfaces to the OS currently only uses the ANSI APIs. Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of Windows. For many western editions of Windows ANSI corresponds to CP-1252 which is a character set similar to ISO-8859-1. Conceptually the ANSI character set is a similar concept to the POSIX locale CODESET so this module figures out what the ANSI code page is and make this available as $ENCODING_LOCALE and the "locale" Encoding alias.

Windows systems also operate with another byte based character set. It's called the OEM code page. This is the encoding that the Console takes as input and output. It's common for the OEM code page to differ from the ANSI code page.

On Mac OS X the file system encoding is always UTF-8 while the locale can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to NFD-form. A file created by passing a NFC-filename will come in NFD-form from readdir(). See L<Unicode::Normalize> for details of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all character ranges are decomposed. The claim is that this avoids problems with round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for details.

File systems might vary in what encoding is to be used for filenames. Since this module has no way to actually figure out what the is correct it goes with the best guess which is to assume filenames are encoding according to the current locale. Users are advised to always specify UTF-8 as the locale charset.
=head1 SEE ALSO

L<18N::Langinfo>, L<Encode>

=head1 AUTHOR

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=cut

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Encode-Locale
============

The purpose of this Perl module is try determine what encodings should be used when interfacing to various external interfaces. You will need perl-5.8 or better to use this module.

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1.2385 commons-lang3 3.4

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The End

1.2390 ingest-user-agent 6.7.0

1.2391 icu 57

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<" 
@$(SHELL) -ec '$(GEN_DEPS.c) $< \ 
    | sed 's/([^\v])\(o[:]\+\)^\v/g\` > $@; \
    [ -s $@ ] || rm -f $@' 

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<" 
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \ 
    | sed 's/([^\v])\(o[:]\+\)^\v/g\` > $@; \
    [ -s $@ ] || rm -f $@' 

## Versioned libraries rules
%.$@,$(SO_TARGET_VERSION_MAJOR): %.$@,$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *
 * @return the name of the license
 */
    String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
    String url() default "";
}

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1.2395 libtext-iconv-perl 1.7-5+b2

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It is currently maintained by Anibal Monsalve Salazar <anibal@debian.org>.

Originally downloaded from CPAN:
<URL:http://search.cpan.org/search?dist=Text-Iconv>

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1.2396 lua 5.1.4 4.1.el6

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1.2397 JCL-Over-SLF4J 1.7.30

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1.2398 httpasyncclient 4.0.2

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1.2399 hadoop-mapreduce-client-common

2.7.4

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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ParaNamer Core 2.3
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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
the executable.

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medium customarily used for software interchange.

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When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.2404 perl-time-local 1.2300-2.el7

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1.2405 dmidecode 3.2 3.el7

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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People

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Michael Lee <yfl@mira.net> - initial RC6 implementation, MD2 implementation

Nuno Santos <nsantos@student.dei.uc.pt> - finding toString bug in certificate object.

Brett Sealey <bretts@morthay.com> - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).

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Eran Librach <eranl@valicert.com> - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).

Jonathan Knudsen <jonathan@LearningPatterns.com> - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann <markus.niedermann@softwired-inc.com> - porting information and restrictions when using the lightweight library with the MIDP environment.

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Soren Hilmer <hilmer@mail.tele.dk> - initial implementation of netscape certificate request classes.

Uwe Guenther <uwe@cscc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

Markus Bradtke <mab@informatik.uni-kiel.de> - fixing of a logic error in the JDKKeyStore class.

Waclaw Sierek <waclaw.sierek@tpg.pl> - fix to setOddParity in...
the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
<li>Ly-Na Phu <lyna.phu@init-consulting.de> - assistance in the addition of ISO 9796-1 padding.</li>
<li>Stefan K&ouml;psell <sk13@mail.inf.tu-dresden.de> - making the jdk 1.1 version of the collections API available. For further details see <a href="http://sourceforge.net/projects/jcf/">http://sourceforge.net/projects/jcf/</a></li>
<li>Carmen Bastiaans <cbastian@microbits.com.au> - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson <tomasg@primekey.se> - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
<li>Eugen Kuleshov <euxx@#064;hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>
<li>Megan Woods <meganwoods@#064;sekurafic.com> - initial implementation of ECIES.</li>
<li>Christian Geuer-Pollmann <geuerp@#064;apache.org> - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>
<li>Michael M&hellip;huile <michael@#064;mouling.de> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
<li>Michael Mansell <me@#064;michaelmansell.com> - fixing the parsing of the empty DER set in the ASN1 library.</li>
<li>Eike Recker <eike.recker@#064;gmx.de> - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>
<li>Chris Southern <CSouthern@#064;baltimore.com> - fixing misuse of specified provider in the PKCS10 certification request class.</li>
<li>Sidney Markowitz <sidney@#064;sidney.com> - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>
<li>Chris Kerr <ckerr@#064;filonet.ca> - initial implementation of the cms, asnl.cms, and the mail/smime packages, assistance in simplifying the ASN1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>
<li>Mike Bean <mbean@#064;lucentradius.com> - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Martin Petraschek <e9526225@student.tuwien.ac.at> - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Jess Garms <jgarms@#064;yahoo.com> - fixing 112/168 key size bug for DESede key generation.</li>
<li>Mike Bremford <mike@#064;big.faceless.org> - contributing the initial PKCS7 implementation.</li>
<li>Shankar Srinivasan <ssr002@#064;yahoo.com> - S/Mime interoperability testing and debugging.</li>
<li>Stef Hoeben <ilstef@#064;skynet.be> - adding Montgomery multiplication to the BigInteger class.
<li>Klaudiusz Ciosk <kciosk@max.com.pl> - improving the compatibility of the SMIME package with the Sun JCE.</li>

<li>Thomas Houtekier <Thomas.Houtekier@tectrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.</li>

<li>Don Hillsberry <shillsber@064:dialcorp.com> - S/Mime testing and debugging.</li>

<li>Kazuhiro Furuya <kfuruya@064:infoteria.co.jp> - fixing root certificate chaining bug in PKCS12 key store.</li>

<li>Jason Novotny <jdnovotny@064:lbl.gov> - initial work on the openssl PEM processing.</li>

<li>Joel Hockey <joel.hockey@064:qsipayments.com> - initial work on the openssl PEM processing.</li>

<li>John Steenbruggen <JohnS@064:geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>

<li>Justin Chapweske <justin@064:chapweske.com> - ordering patch for Tiger message digest.</li>

<li>John Seroch <jsroch@064:hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>

<li>Sascha Weinreuter <Sascha.Weinreuter@064:certivo.net> - SMIME v2 compatibility patches.</li>

<li>Marcus Povey <mpovey@064:brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.</li>

<li>Sebastian Claus <sc2@064:inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.</li>

<li>Nicolas Bielza <nicolas.bielza@064:alligacom.com> - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>

<li>Casey Marshall <casey@064:metastatic.org> - fixing the clone problem with Macs in the clean room JCE.</li>

<li>Rick Zeldes <rick.zeldes@064:eds.com> - initial code for CMS/SIMIME CompressedData.</li>

<li>Jarek Gawor <gawor@064:mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>

<li>Brett Neumeier <random@064:rnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>

<li>Graham Coles <graham.coles@064:retail-logic.com> - patch to isParityAdjusted in DESKeySpec.</li>

<li>J&ouml;rn von Kattch&eacute;e <J.Kattchee@seeburger.de> - patch to SMIMEGenerator for preventing class exceptions with BodyParts containing MultiPart objects.</li>

<li>Matteo Artuso <matartuso@064:libero.it> - picking up the possible overread in ASN1InputStream.</li>

<li>Julian Morrison <julian@064:extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.</li>

<li>Elmar Sonnenschein <eso@064:esomail.de> - fix to long conversion in clean room SecureRandom.</li>

<li>J&ouml;rn Schwarze <JSchwarze@064:ulc.de> - Locale fix for the clean room JCE.</li>

<li>Bryan Lovquist <bkl@064:cps.com.au> - Other provider compatibility fixes for CMS signing.</li>

<li>Artem Portnoy <Artem_Portnoy@064:ibi.com> - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>

<li>Michael H&auml;nzl <slaehausler@064:ponton-consulting.de> - missing OID update for SHA1 with RSA Signature.</li>

<li>Johan Seland <johans@064:netfonds.no> - general toString for BigInteger class.</li>
<li>Johannes Nikolai <johannes.nicolai@novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
<li>Marc Doberva <marc.doberva@064ilex-si.com> - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak <jan.dvorak@064mathan.cz> - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen <jcohen@064forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long <aclong@ece.cmu.edu> - adding public key decoding to PEMReader.</li>
<li>Hes Siemelink <hes@064izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu <stefanpuiuro@yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Kaiser Yang <kaiseryang@064@yahoo.com> - Finding BigInteger loop problem in prime generation.</li>
<li>Jan Dvorak <jiri.urbanec@064logicacmg.com> - patch to fix defect in DERBMPString.equals().</li>
<li>Justin Kolb <jkolb@064pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>
<li>Ralf Hauser <ralfhauser@064gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.</li>
<li>Michal Dvorak <mk.Dvorak@064kb.cz> - getNextUpdate patch for OCSP SingleResp.</li>
<li>Klaus Greve Fiorentini <klaus@064cpqd.com.br> - array fix in PGP PublicKeyEncSessionPacket.</li>
<li>Olivier Refalo <Olivier_Refalo@fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>
<li>Mariusz Bandola <mariusz.bandola@064cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein <brien.oberstein@064transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtile.</li>
<li>Ian Haywood <ian@064haywood.bpa.nu> - addtion of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards <s34gull@mac.com> - initial support for reading multiple rings from a PGP key file.</li>
<li>Andrew Thornton <andrew@064caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.</li>
<li>Gregor Leander <gl@064bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.</li>
<li>Antoon Bosselaers <Antoon.Bosselaers@064esat.kuleuven.ac.be> - help with RipeMD320 implementation.</li>
<li>Peter Sylvester <Peter.Sylvester@064edelweb.fr> - improvements to the ASN.1 BasicConstraints object.</li>
<li>Doug <ummmm@064myrealbox.com> - addtion of isEncryptionKey method to OpenPGP public keys.</li>
<li>Francois Staes <fstaes@064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed content info to CMSDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer <w.dittmer@064cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKkeyPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto <laperez@064banxico.org.mx> - patch to use of BitString in X.500 name.</li>
<li>James Wright <James_Wright@064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford <jim@064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler <mhausler@064ponton-consulting.de> - extra aliases for provider.</li>
<li>Sai Pullabhotla <spai@064inoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
Joseph Miller <joseph@064digiweb.net.nz> - addition of ZeroBytePadding.

Lars <xyz@064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen <jeroen@064vanvianen.nl> - the Signed and Encrypted mail example.

Jun Sun <JSun@064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem <pdukem@email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva <filipe.silva@064wedoconsulting.com> - patch to fix overead issue in BCPGInputStream.

Alpesh Parmar <alps@064linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach <jgengelbach@064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PG signatureGenerator, initial cut for indefinite length output.

Doug <doug@064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy <mmundy@1@064umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill <cargill@064profcon.com> - spelling patch in provider.

Breitenstrom Christian <C.Breitenstrom@064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko <zanotti@064cad.it> - patch to ordered equality test for X509Name.

Nicola Scendoni <nscedoni@064babelps.it> - patch to add sorting to CertPath validation.

Ville Skyttä &uml; <ville.skyttä@064iki.fi> - patch to CRLDistPoint for crILissuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon <bruce.gordon@savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley <Miles.Whiteley@064savvis.net> - "223" fix for BCPGInputStream new packets.

Albert Moliner <amoliner@064evintia.com> - initial TSP implementation.

Carlos Lozano <carlos@064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo <javi@064jav.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala <joni.hahkala@064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.

Rolf Schillinger <rolf@064srir-wum.de> - initial implementation of Attribute Certificate generation.

Sergey Bahtin <Sergey_Bahtin@064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy <Franck.Leroy@064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiiko Yamanaka <ymnk@064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov <tyrex@064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer <soren.hilmer@064tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell <mitchell@064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier <juliennpasquier@064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo <matartuso@064libero.it> - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson <andrew.paterson@064burnsec.com> - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov <vladimir.n.molotkov@064intel.com> - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan <adlocflo@064web.de> - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev <paulvass@064gmail.com> - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman <tom@064tnux.net> - addition of DES-ED3 encryption for RSAPrivate keys to PEMWriter.</li>
<li>Luukas Kowalczyk <luukas.b.kowalczyk@064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
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<li>Luukas Kowalczyk <luukas.b.kowalczyk@064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
generation in ECDSA.</li>
<li>Jo&ouml;lrg Eichhorn <eichhorn&#064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme <widerstand&#06404t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPoinUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings.</li>
<li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz <carlos&#06404tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.</li>
<li>John Alfred Prufrock <j.a.prufrock&#064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen <sneusatz&#064064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice <marzio.logiudice&#064064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold <georg.lippold&#064064gmx.de> - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles <chris_viles&#064064yahoo.com> - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen <Pasi.Eronen&#064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Lijun Liao <lijun.liao&#064064rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.</li>
<li>Maria Ivanova <maria.ivanova&#064064gmail.com> - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&auml;uaml;berling arminh&amp;#064student.ethz.ch - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder <mschilder&#064064google.com> - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourch <xavier&#064064brittanysoftware.com> - general code clean ups.</li>
<li>Eric Tews <e_tews&#064064cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS1.5 decoding.</li>
<li>Thomas Dixon <reikomusha&#064064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis <info&#064064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim <rjoaquim&#064064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey <DSacey&amp;#064064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers <list&amp;#064064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies <juliusdavies&#064064gmail.com> - additional modes and algorithm support in PEMReader.</li>
<li>Matthias <g&amp;#064064rtner.de> - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&amp;auml;hler <olga.kaehtler&amp;#064064jp-consulting.com> - initial implementation of TeleTrusT EC curves,
additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

- Initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

- Patch for alternate data type recognition in CMS SignedDataParser.

- Addition of NotationData packets for OpenPGP.

- Initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

- Patch for alternate data type recognition in CMS SignedDataParser.

- Addition of NotationData packets for OpenPGP.

- Patches towards improved Sun/default provider support in CMS.

- Patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.

- Patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

- Correction to excluded DN in name constraints processing for PKIX processing.

- Mask fix to single byte read in TlsInputStream.

- Additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

- Fix for named curve recognition in ECOST key generation.

- Addition of getTsa() to TimeStampTokenInfo.

- Initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

- Fix for issue in OpenPGP examples [#BJA-55].

- Support for counter signature reading in CMS API, update for multiple counter signature attributes.

- Security manager patch for PKCS1Encoding property check.

- Updates to KeyPurposeId

- Improved exception handling for getInstance() in ASN.1 library.

- Patch to construtor for CRMF CertSequence.

- Identified a bug in ASN.1 library with handling of unterminated NDEFs.

- Patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

- Identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

- Identified problem with EAX [#BJA-93].

- Fix to use of Signature rather than SignatureSpi in provider [#BJA-90].

- Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]

- Fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

- Fix to default partial packet generation in BCPGOutputStream.

- Fix to hashCode for X509CertificateObject.

- Backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

- Speedups for OpenPGPCFB mode, clean room JCE patches.
Rui Hodai <rui@064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic <emir.bucalovic@064mail.com> initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson <tobbe79@064gmail.com> initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick <bouncycastle@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson <k.henrik.andersson@064gmail.com> addition of UniqueIssuerID to certificate generation.

Rui Hodai <rui@064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic <emir.bucalovic@064mail.com> initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson <tobbe79@064gmail.com> initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick <bouncycastle@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson <k.henrik.andersson@064gmail.com> addition of UniqueIssuerID to certificate generation.

Cagdas Cirit <cagdascirit@064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.

Harakiri <harakiri_23@064yahoo.com> datahandler patch for attached parts in SMIME signatures.

Pedro Henriques <pmahenriques@064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer <job@064kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal.

Richard Farr <rfarr.se@064gmail.com> initial SRP-6a implementation.

Thomas Castiglione <castiglione@064au.ibm.com> patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani@sogei.it> patch for recognising multiple counter signatures.

Robin Lundgren <r737lundgren@064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec <nmromelig@064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener <antener_a@064gx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat <hrsrawat@064yahoo.com> fix for BERConstructedOctetString.

Rolff Lindemann <lindemann@064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov <alexart.home@064gmail.com> name look up patch for GOST-2001 parameters.

Mike Lyons <mlyons@064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole <chris_h_cole@064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom@064atack.cz> added checking of Sender header to SignedMailValidator.

Michael <emfau@064t-online.de> correction of field error in getResponse method in CertRepMessage.

Trevor Perrin <trevor@064cryptography.com> addition of constant time equals to avoid possible timing attacks.

Markus Kilaring:s <markus@064primekey.se> several enhancements to TimeStampResponseGenerator.

Dario Novakovic <darionis@064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith <msmith@064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio@064gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alex@064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant@064gmail.com> additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis <info@064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner <jan@064dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <baob.mcgoo@064btinternet.com> patch to support different content and mgf digests in PSS signing.

Ivo Matheis <i.matheis@seeburger.de> fix to padding verification in ISO-9796-1.
Marco Sandrini <nessche@#064gmail.com> patch to add IV to ISO9797Alg3Mac.
Alf Malf <alfimalf@#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa <alfonso massa@#064insiel.it> contributions to CMS timestamp classes.
Giacomo Boccardo <gboccardo@#064unimaticasp.it> initial work on CMSTimeStampedDataParser.
Arnis Tartu <arnis@#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
Janusz Sikociski <J.Sikocinski@#064gddie.pl> addition of Features subpacket support to OpenPGP API.
Juri Hudelejev <jhudelejev@#064gmail.com> JDoc fix to CMSSignedDataParser.
Liane Velten < liane.velten@#064hp-consulting.com> fine tuning of code for DHParameters validation.
Shawn Willden <swillden@#064google.com> additional functionality to PGPKeyRing.
Atanas Krachev <akrachev@#064gmail.com> added support for revocation signatures in OpenPGP.
Alf Malf <alfimalf@#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa <alfonso massa@#064insiel.it> contributions to CMS timestamp classes.
Giacomo Boccardo <gboccardo@#064unimaticasp.it> initial work on CMSTimeStampedDataParser.
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Liane Velten < liane.velten@#064hp-consulting.com> fine tuning of code for DHParameters validation.
Shawn Willden <swillden@#064google.com> additional functionality to PGPKeyRing.
Atanas Krachev <akrachev@#064gmail.com> added support for revocation signatures in OpenPGP.
EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>
<li>Marcus Lundblad <marcus.lundblad@primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin <zhozhin@xrm.ru> patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiuov <t5555d@064gmail.com> initial cut of DVCS classes.</li>
<li>Damian Kolasa <fatfredyy@064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes <ashley.hughes@blueyonder.co.uk> patches for supporting PGP SecretKeyRing/PGP SecretKeys encodings with empty private keys, initial code for PGP SignaturesubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher <daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.</li>
<li>Daniele Ricci <daniele.athome@064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio <matti.aarnio@methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.</li>
<li>Babak Najafi <bnajafi@064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric Muller <eric.mueller@064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Mathias Herberts <Mathias.Herberts@064gmail.com> fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov <daniil.ivanov@064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso <daniele.grasso86@064gmail.com> contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin <cindrhc@064gmail.com> patch to reconstruction of ECOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu <arnis@064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB <axel-vdb@riseup.net> initial implementation of Shacal2.</li>
<li>Roberto Tyley < further work on completing gradle build.</li>
<li>Waldemar Dick <wdick@064devmue.de> code improvement in x500 ASN.1 package.</li>
<li>Sid Steward <sid.steward@064pdflabs.com> code improvements to ASN1Boolean.</li>
<li>Alex Klyubin <klyubin@064google.com> AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett <gsoc.student@064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter <andreas.reiter@iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller <kieran.miller@064gmail.com> initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli <ehli@064arago.de> Additional support for BSI plain ECDSA in the provider.</li>
<li>Andreas Heldt <Daniel.Heldt@cryptovision.com> Initial support for encodable state message digests.</li>
<li>Robert Bushman <bouncycastle@064traxel.com> Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts <saartje@064rsicure.com> updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer <https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.</li>
<li>KB Sriram <mail_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze <marco@064nightlabs.de> Reported verification bug in GenericSigner.</li>
<li>Matthew Schaef <https://github.com/martinschaef> contributed a code-cleanup patch.</li>
<li>Lijun Liao <ljun.liao@064gmail.com>gt; addition of getSignatureAlgorithmID to BasicOCSPResp.</li>
<li>dustutz <https://github.com/dstutz> added iteration count-setters to PKCS#12 PBE mac/key generator.
Tobias Wich <tobias.wich@064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens <hauke@064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman <dmz@064galois.com> Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza <lj.kapitza@064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund <johan@064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.

nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch <axel-external@riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins <derek@064htfp.com> Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky <peto@064halicky.sk> Correction to notification/error message handling in SignedMailValidator.


Thomas Belot <thomas.belot+BC@064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce <https://github.com/rdcroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Bjorn Kautler <https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schumm <schumm@064gmail.com> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael <MSKnete@064web.de> initial fix for bitStrength issue for OpenPGP EC keys.

Tobias Wagner <tobias.wagner@064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro <sgiro@064google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette <https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSDataParser. 

Leonard Dallot <https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen <j.w.janssen@bouncycastle@064xtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.

Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.

Kai Kramer <kai.kramer@064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles <benoit.charles@064opentrust.com> Fix for IES data length check on decryption.

Niko <nfink95@064gmail.com> fix to cast issue in getOutputSize() for ECIES.

akwizgran <https://github.com/akwizgran> Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff <Matthias.Edelhoff@064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat <lukasz.deputat@064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].
Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.

André Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranowski <https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev <https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.

William Glanton <eglanton77@#064gmail.com> Fixed bug in Poly1305 [#BJA-620].

jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle <jnaegle@#064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.

Gorka Irazoqui <girazoki@#064wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.

Joerg Senekowitsch <joerg.senekowitsch@#064veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta <wipe@#064ya.ru> N4 calculation fix to GOFB mode.

Artem Storozhuk <storozh722@#064gmail.com> N4 calculation fix to GOFB mode.

Na Yu <na.yu@#064samsung.com> Constructor patches to CMC PKIData.

Evangelos Karatsiolis <ekaratsiolis@#064mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.


Sebastian Wolfgang Roland <sebastianwolfgang.roland@#064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.


Mike Safonov <https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA.

Artem Storozhuk <storozh722@#064gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser <andreas.glaser@gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.

1.2409 libcggroup 0.41 20.el7
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1.2410 jackson-databind 2.8.4

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http://ftp.gnu.org/gnu/m4/m4-1.4.17.tar.xz

The changes were very minimal - merely adding support for the Debian package maintenance scheme, by adding various debian/* files.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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The End

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
metaSpec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
version: 3
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

#perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b\d{4,}$/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /\b\d{4,}\b/;
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on
Upstream Authors:

Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.24.1

Files: *
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Written by Henry Spencer. Not derived from licensed software.

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NOTE: this is derived from Henry Spencer's regexp code, and should not
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Comment:
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License: HSIEH-DERIVATIVE or HSIEH-BSD or LGPL-2.1
Comment:
----------------------------------------
The first two alternative licenses, as retrieved at
Thu, 09 May 2013 00:00:38 +0300
are included at the end of this file.

Part of this file carries the following comment:

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(http://burtleburtle.net/bob/hash/doobs.html)
It is by Paul Hsieh (c) 2004 and is analysed here
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Julian Seward, jseward@bzip.org
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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That's all there is to it!

1.2422 cloud-init 0.7.5-0ubuntu1.22

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.
A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product
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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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c) Convey individual copies of the object code with a copy of the
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d) Convey the object code by offering access from a designated
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Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

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1.2424 cyrus-sasl 2.1.26

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1.2426 jackson-xc 2.9.8

1.2427 netty-reactive-streams-http 2.0.0

1.2428 jaxb-api 2.2.11
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```

**1.2435 bison 3.0.2.dfsgh-2**

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@c End:

1.2436 go-yaml 2.2.2
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1.2437 libxi 1.1.3-1

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1.2438 pppconfig 2.3.19ubuntu1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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Version 3, 19 November 2007

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1.2462 diffutils 3.3 5.el7
1.2462.1 Available under license:

/* diff - compare files line by line


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#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS
   proper_name ("Paul Eggert"),
   proper_name ("Mike Haertel"),
   proper_name ("David Hayes"),
   proper_name ("Richard Stallman"),
   proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
    char *regexps;/* chars representing disjunction of the regexps */
    size_t len; /* chars used in 'regexps' */
    size_t size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
    struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories */
recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). 
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty 
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s). 
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abCcCdDeEfFhHiIlLnNnPqrsStTuUvwWxXyZ";

/* Values for long options that do not have single-letter equivalents. */
enum
{
   BINARY_OPTION = CHAR_MAX + 1,
   FROM_FILE_OPTION,
   HELP_OPTION,
   HORIZON_LINES_OPTION,
   IGNORE_FILE_NAME_CASE_OPTION,
   INHIBIT_HUNK_MERGE_OPTION,
   LEFT_COLUMN_OPTION,
   LINE_FORMAT_OPTION,
   NO_DEREFERENCE_OPTION,
   NO_IGNORE_FILE_NAME_CASE_OPTION,
   NORMAL_OPTION,
   SDIFF_MERGE_ASSIST_OPTION,
   STRIP_TRAILING_CR_OPTION,
   SUPPRESS_BLANK_EMPTY_OPTION,
SUPPRESS_COMMON_LINES_OPTION,
TABSIZE_OPTION,
TO_FILE_OPTION,

/* These options must be in sequence. */
UNCHANGED_LINE_FORMAT_OPTION,
OLD_LINE_FORMAT_OPTION,
NEW_LINE_FORMAT_OPTION,

UNCHANGED_GROUP_FORMAT_OPTION,
OLD_GROUP_FORMAT_OPTION,
NEW_GROUP_FORMAT_OPTION,
CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    { "binary", 0, 0, BINARY_OPTION },
    { "brief", 0, 0, 'q' },
    { "changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION },
    { "context", 2, 0, 'C' },
    { "ed", 0, 0, 'e' },
    { "exclude", 1, 0, 'x' },
    { "exclude-from", 1, 0, 'X' },
    { "expand-tabs", 0, 0, 't' },
    { "forward-ed", 0, 0, 'f' },
    { "from-file", 1, 0, FROM_FILE_OPTION },
    { "help", 0, 0, HELP_OPTION },
    { "horizon-lines", 1, 0, HORIZON_LINES_OPTION },
    { "ifdef", 1, 0, 'D' },
    { "ignore-all-space", 0, 0, 'w' },
    { "ignore-blank-lines", 0, 0, 'B' },
    { "ignore-"}
{"ignore-case", 0, 0, 'i'},
{"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
{"ignore-matching-lines", 1, 0, 't'},
{"ignore-space-change", 0, 0, 'b'},
{"ignore-tab-expansion", 0, 0, 'E'},
{"ignore-trailing-space", 0, 0, 'Z'},
{"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
{"initial-tab", 0, 0, 'T'},
{"label", 1, 0, 'L'},
{"left-column", 0, 0, LEFT_COLUMN_OPTION},
{"line-format", 1, 0, LINE_FORMAT_OPTION},
{"minimal", 0, 0, 'd'},
{"new-file", 0, 0, 'N'},
{"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
{"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
{"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
{"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
{"normal", 0, 0, NORMAL_OPTION},
{"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
{"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
{"paginate", 0, 0, 'T'},
{"rcs", 0, 0, 'n'},
{"recursive", 0, 0, 'r'},
{"report-identical-files", 0, 0, 's'},
{"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
{"show-c-function", 0, 0, "p"},
{"show-function-line", 1, 0, 'F'},
{"side-by-side", 0, 0, 'y'},
{"speed-large-files", 0, 0, 'H'},
{"starting-file", 1, 0, 'S'},
{"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
{"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
{"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
{"tabsize", 1, 0, TABSIZE_OPTION},
{"text", 0, 0, 'a'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0, 0}
};

/* Return a string containing the command options with which diff was invoked.
Spaces appear between what were separate ARGV-elements.
There is a space at the beginning but none at the end.*/
If there were no options, the result is an empty string.

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, the length of that vector. */

static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);

    p = result = xmalloc (size);

    for (i = 0; i < count; i++)
    {
        *p++ = ' ';
        p = shell_quote_copy (p, optionvec[i]);
    }

    *p = '0';
    return result;
}

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    int ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
char const *from_file = NULL;
char const *to_file = NULL;
uintmax_t numval;
char *numend;

/* Do our initializations. */
exit_failure = EXIT_TROUBLE;
initialize_main (&argc, &argv);
set_program_name (argv[0]);
setlocale (LC_ALL, "");
bindtextdomain (PACKAGE, LOCALEDIR);
textdomain (PACKAGE);
c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();

/* Decode the options. */
while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
    {
    case 0:
        break;
    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;
    case 'a':
        text = true;
        break;
case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
case 'U':
    {
        if (optarg)
            {
                numval = strtoumax (optarg, &numend, 10);
                if (*numend)
                    try_help ("invalid context length \"%s\", optarg);
                if (LIN_MAX < numval)
                    numval = LIN_MAX;
            }
        else
            numval = 3;

        specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
        if (context < numval)
            context = numval;
        explicit_context = true;
    }
    break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {

static char const C_ifdef_group_formats[] =
  "```%%%%=%c#ifndef %s
%%%%<#endif /* ! %s */
%c#ifdef %s
%%>#endif /* %s */
%c#ifndef %s
%%<#else /* %s */
%%>#endif /* %s */
```"
;
char *b = xmalloc (sizeof C_ifdef_group_formats
    + 7 * strlen (optarg) - 14 /* 7*"%s" */
    - 8 /* 5*"%%%" + 3*"%c" */);
sprintf (b, C_ifdef_group_formats,
    optarg, optarg, 0,
    optarg, optarg, 0,
    optarg, optarg, optarg);
for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
  {
    specify_value (&group_format[i], b, "-D");
    b += strlen (b) + 1;
  } 
break;

case 'e':
  specify_style (OUTPUT_ED);
  break;

case 'E':
  if (ignore_white_space < IGNORE_SPACE_CHANGE)
    ignore_white_space |= IGNORE_TAB_EXPANSION;
  break;

case 'f':
  specify_style (OUTPUT_FORWARD_ED);
  break;

case 'F':
  add_regexp (&function_regexp_list, optarg);
  break;

case 'h':
  /* Split the files into chunks for faster processing.
     Usually does not change the result.
     
     This currently has no effect. */
  break;

case 'H':
  speed_large_files = true;
  break;

case 'i':

ignore_case = true;
break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'T':
    if (!pr_program[0])
        try_help("pagination not supported on this host", NULL);
    paginate = true;
#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal(SIGCHLD, SIG_DFL);
#endif
    break;

    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal("too many file label options");
    break;

case 'N':
    new_file = true;
    break;

case 'P':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]$]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;
case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'V':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
            AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
            exclude_options (), 'n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help("invalid width '%s'", optarg);
    if (width != numval)
        if (width)
            fatal("conflicting width options");
            width = numval;
    break;

case BINARY_OPTION:
    #if O_BINARY
        binary = true;
        if (! isatty(STDOUT_FILENO))
            set_binary_mode(STDOUT_FILENO, O_BINARY);
    #endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
left_column = true;
break;

case LINE_FORMAT_OPTION:
specify_style (OUTPUT_IFDEF);
for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
specify_value (&line_format[i], optarg, "--line-format");
break;

case NO_DEREFERENCE_OPTION:
no_dereference_symlinks = true;
break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
ignore_file_name_case = false;
break;

case NORMAL_OPTION:
specify_style (OUTPUT_NORMAL);
break;

case SDIFF_MERGE_ASSIST_OPTION:
specify_style (OUTPUT_SDIFF);
sdiff_merge_assist = true;
break;

case STRIP_TRAILING_CR_OPTION:
strip_trailing_cr = true;
break;

case SUPPRESS_BLANK_EMPTY_OPTION:
suppress_blank_empty = true;
break;

case SUPPRESS_COMMON_LINES_OPTION:
suppress_common_lines = true;
break;

case TABSIZE_OPTION:
umval = strtoumax (optarg, &numend, 10);
if (! (0 < numval && numval <= SIZE_MAX) || *numend)
try_help ("invalid tabsize \"%s\", optarg);
if (tabsize != numval)
{
if (tabsize)
fatal ("conflicting tabsize options");
tabsize = numval;
}
break;

case TO_FILE_OPTION:
    specify_value(&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style(OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value(&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style(OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value(&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help(NULL, NULL);
}
    prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style(OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style(OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale(LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S,%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
}
if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
context = ocontext;

if (! tabsize)
tabsize = 8;
if (! width)
width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
        according to the following constraints:

    1. Two half lines plus a gutter must fit in a line.
    2. If the half line width is nonzero:
        a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
        b. If tabs are not expanded to spaces,
            a half line plus a gutter is an integral number of tabs,
            so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) + t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
    shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
    line_format[i] = "\n";
if (!group_format[OLD])
    group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
if (!group_format[NEW])
    group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
if (!group_format[UNCHANGED])
    group_format[UNCHANGED] = "%=";
if (!group_format[CHANGED])
    group_format[CHANGED] = concat (group_format[OLD],
                                group_format[NEW], ");

no_diff_means_no_output =
    (output_style == OUTPUT_IFDEF ?
     (!*group_format[UNCHANGED]
      || (STREQ (group_format[UNCHANGED], "%=")
           && !*line_format[UNCHANGED])))
    : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
    (brief & binary
     & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
          | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
        fatal ("--from-file and --to-file both specified");
    else
        for (; optind < argc; optind++)
            {
            int status = compare_files (NULL, from_file, argv[optind]);
            if (exit_status < status)
                exit_status = status;
            }
}
else
{
    if (to_file)
        for (; optind < argc; optind++)
            {
            int status = compare_files (NULL, argv[optind], to_file);
            }
if (exit_status < status)
    exit_status = status;
else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
            try_help ("missing operand after "%s", argv[argc - 1]);
        else
            try_help ("extra operand "%s", argv[optind + 2]);
    }

    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}

/* Print any messages that were saved up for last. */
print_message_queue ();

cHECK//#include "stdio.h"
check_stdout ();
exit (exit_status);
return exit_status;

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;

        if (size <= newlen)
        {
            if (!size)
                size = 1;
do size *= 2;
while (size <= newlen);

reglist->size = size;
reglist->regexps = regexps = xrealloc (regexps, size);
}
if (multiple_regexps)
{
regexps[len++] = '\';
regexps[len++] = '|';
}
memcpy (regexps + len, pattern, patlen + 1);
}

/* Ensure that REGLIST represents the disjunction of its regexps.
This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
if (reglist->regexps)
{
/* At least one regexp was specified. Allocate a fastmap for it. */
reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
if (reglist->multiple_regexps)
{
/* Compile the disjunction of the regexps.
(If just one regexp was specified, it is already compiled.) */
char const *m = re_compile_pattern (reglist->regexps, reglist->len,
reglist->buf);
if (m)
error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
}
}

static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
program_name);
abort (0);
}

static void
check_stdout (void)
{
    if (ferror (stdout))
        fatal ("write failed");
    else if (fclose (stdout) != 0)
        pfatal_with_name (_, "standard output");
}

static char const * const option_help_msgid[] = {
    N_("    --normal                  output a normal diff (the default)")
    N_("-q, --brief                   report only when files differ")
    N_("--report-identical-files report when two files are the same")
    N_("-c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context")
    N_("-u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context")
    N_("-e, --ed output an ed script")
    N_("-n, --rcs output an RCS format diff")
    N_("-y, --side-by-side output in two columns")
    N_("-W, --width=NUM output at most NUM (default 130) print columns")
    N_("-l, --left-column output only the left column of common lines")
    N_(" --suppress-common-lines do not output common lines")
    
    N_("-p, --show-c-function show which C function each change is in")
    N_("-F, --show-function-line=RE show the most recent line matching RE")
    N_(" --label LABEL use LABEL instead of file name
"          (can be repeated)")
    
    N_("-t, --expand-tabs expand tabs to spaces in output")
    N_("--initial-tab make tabs line up by prepending a tab")
    N_("--tabsize=NUM tab stops every NUM (default 8) print columns")
    N_("--suppress-blank-empty suppress space or tab before empty output lines")
    N_("--paginate pass output through 'pr' to paginate it")
    
    N_("-r, --recursive recursively compare any subdirectories found")
    N_("--no-dereference don't follow symbolic links")
    N_("-N, --new-file treat absent files as empty")
    N_("--unidirectional-new-file treat absent first files as empty")
    N_("--ignore-file-name-case ignore case when comparing file names")
    N_("--no-ignore-file-name-case consider case when comparing file names")
    N_("--exclude=PAT exclude files that match PAT")
    N_("--exclude-from=FILE exclude files that match any pattern in FILE")
    N_("--starting-file=FILE start with FILE when comparing directories")
    N_("--from-file=FILE1 compare FILE1 to all operands:
"          FILE1 can be a directory")
    N_("--to-file=FILE2 compare all operands to FILE2:
"          FILE2 can be a directory")
    
    N_("--ignore-case ignore case differences in file contents")
    N_("--ignore-tab-expansion ignore changes due to tab expansion")
};
N_(-Z, --ignore-trailing-space     ignore white space at line end"),
N_(-b, --ignore-space-change       ignore changes in the amount of white space"),
N_(-w, --ignore-all-space          ignore all white space"),
N_(-B, --ignore-blank-lines        ignore changes where lines are all blank"),
N_(-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),

"",
N_(-a, --text                      treat all files as text"),
N_(-strip-trailing-cr strip trailing carriage return on input"),
#if O_BINARY
N_(-binary read and write data in binary mode"),
#endif

N_(-D, --ifdef=NAME                output merged file with '#ifdef NAME' diffs"),
N_(-GTYPE-group-format=GFMT     format GTYPE input groups with GFMT"),
N_(-line-format=LFMT            format all input lines with LFMT"),
N_(-LTYPE-line-format=LFMT      format LTYPE input lines with LFMT"),
N_(- These format options provide fine-grained control over the output
   " of diff, generalizing -D/--ifdef."),
N_(- LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'."),
N_(- GFMT (only) may contain:\n
  %< lines from FILE1\n
  %> lines from FILE2\n
  %= lines common to FILE1 and FILE2\n
  %-][[WIDTH]][[PREC]][(doxX)LETTER printf-style spec for LETTER\n
  LETTERs are as follows for new group, lower case for old group:\n
    F first line number\n
    L last line number\n
    N number of lines = L-F+1\n
    E F-1\n
    M L+1\n
    %(A=B?T:E) if A equals B then T else E"),
N_(- LFMT (only) may contain:\n
  %L contents of line\n
  %l contents of line, excluding any trailing newline\n
  %-][[WIDTH]][[PREC]][(doxX)n printf-style spec for input line number"),
N_(- Both GFMT and LFMT may contain:\n
  %% %\n
  %c'C' the single character C\n
  %c\'OOO' the character with octal code OOO\n
  C the character C (other characters represent themselves"),

N_(-d, --minimal try hard to find a smaller set of changes"),
N_(-horizon-lines=NUM keep NUM lines of the common prefix and suffix"),
N_(-speed-large-files assume large files and many scattered small changes"),

N_(-help display this help and exit"),
N_(-v, --version output version information and exit"),
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'."),
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("If a FILE is '-', read standard input.")],
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.")
0
];

static void
usage (void)
{
char const * const *p;

printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
printf (_("Compare FILES line by line."));

fputs (_("\nMandatory arguments to long options are mandatory for short options too.\n"), stdout);

for (p = option_help_msgid;  *p;  p++)
{
if (!**p)
putchar ('\n');
else
{
char const *msg = _(*p);
char const *nl;
while ((nl = strchr (msg, '\n')))
{
    int msglen = nl + 1 - msg;
    printf (_(" \%s", msglen, msg);
    msg = nl + 1;
}

printf (_(" \%s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
}
}
emit_bug_reporting_address ()
;

/* Set VAR to VALUE, reporting an OPTION error if this is a
   conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
if (*var && ! STREQ (*var, value))
{
    error (0, 0, _("conflicting \%s option value '\%s'"), option, value);
}
try_help (NULL, NULL);

*var = value;

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help ("conflicting output style options", NULL);
        output_style = style;
    }
}

/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
    #ifdef STAT_TIMESPEC
       _gettime (&STAT_TIMESPEC (st, st_mtim));
    #else
        struct timespec t;
        gettime (&t);
        st->st_mtime = t.tv_sec;
    #if defined STAT_TIMESPEC_NS
        STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
    #elif defined HAVE_STRUCT_STAT_ST_SPARE1
        st->st_spare1 = t.tv_nsec / 1000;
    #endif
    #endif
}

/* Compare two files (or dirs) with parent comparison PARENT and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
register int f;
int status = EXIT_SUCCESS;
bool same_files;
char *free0;
char *free1;

/* If this is directory comparison, perhaps we have a file
that exists only in one of the directories.
If so, just print a message to that effect. */
if (! ((name0 && & name1)
|| (unidirectional_new_file && & name1)
|| new_file))
{
    char const *name = name0 ? name0 : name1;
    char const *dir = parent->file[!name0].name;

    /* See POSIX 1003.1-2001 for this format. */
    message ("Only in %s: %\"s\n", dir, name);

    /* Return EXIT_FAILURE so that diff_dirs will return
EXIT_FAILURE ("some files differ"). */
    return EXIT_FAILURE;
}

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */
if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;
if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
    cmp.file[1].name = free1
}
else
{
    cmp.file[0].name = free0
    cmp.file[1].name = free1

} /* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].stat.st_size =
                            MAX (0, cmp.file[f].stat.st_size - pos);
                }
            }
            /* POSIX 1003.1-2001 requires current time for
               stdin. */
            set_mtime_to_now (&cmp.file[f].stat);
        }
else if ((no_dereference_symlinks
? lstat (cmp.file[f].name, &cmp.file[f].stat)
: stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that 'patch'
creates to indicate nonexistent backups), or if they are
top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
  if ((new_file || (f == 0 && unidirectional_new_file))
& (cmp.file[f].desc == UNOPENED
? (S_ISREG (cmp.file[f].stat.st_mode)
  && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
  && cmp.file[f].stat.st_size == 0)
: ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
|| cmp.file[f].desc == ERRNO_ENCODE (EBADF))
  && ! parent
  && (cmp.file[1 - f].desc == UNOPENED
|| cmp.file[1 - f].desc == STDIN_FILENO)))
cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
  if (cmp.file[f].desc == NONEXISTENT)
  {
    memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
    cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
  }

for (f = 0; f < 2; f++)
  {
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
      errno = e;
      perror_with_name (cmp.file[f].name);
      status = EXIT_TROUBLE;
    }
  }

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
  {

/* If one is a directory, and it was specified in the command line, 
use the file in that dir with the other file's basename. */

int fnm_arg = DIR_P (0);
int dir_arg = 1 - fnm_arg;
char const *fnm = cmp.file[fnm_arg].name;
char const *dir = cmp.file[dir_arg].name;
char const *filename = cmp.file[dir_arg].name = free0
  = find_dir_file_pathname (dir, last_component (fnm));

if (STREQ (fnm, "-"))
fatal ("cannot compare '-' to a directory");

if ((no_dereference_symlinks
  ? lstat (filename, &cmp.file[dir_arg].stat)
  : stat (filename, &cmp.file[dir_arg].stat))
!= 0)
{
  perror_with_name (filename);
  status = EXIT_TROUBLE;
}

if (status != EXIT_SUCCESS)
{
  /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
  && cmp.file[1].desc == NONEXISTENT)
{
  /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
  = (cmp.file[0].desc != NONEXISTENT
    && cmp.file[1].desc != NONEXISTENT
    && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
    && same_file_attributes (&cmp.file[0].stat, 
    &cmp.file[1].stat)))
  && no_diff_means_no_output)
{
  /* The two named files are actually the same physical file. 
  We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
  if (output_style == OUTPUT_IFDEF)
fatal ("-D option not supported with directories");
/* If both are directories, compare the files in them. */

if (parent && recursive)
{
    /* But don't compare dir contents one level down
     unless -r was specified.
     See POSIX 1003.1-2001 for this format. */
    message("Common subdirectories: %s and %s\n", cmp.file[0].name, cmp.file[1].name);
}
else
    status = diff_dirs(&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
    || (parent
        && !(S_ISREG (cmp.file[0].stat.st_mode)
            || S_ISLNK (cmp.file[0].stat.st_mode))
        && (S_ISREG (cmp.file[1].stat.st_mode)
            || S_ISLNK (cmp.file[1].stat.st_mode))))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
    {
        /* We have a subdirectory that exists only in one directory. */

        if ((DIR_P (0) | DIR_P (1))
            && recursive
            && (new_file
                && (unidirectional_new_file
                    && cmp.file[0].desc == NONEXISTENT)))
            status = diff_dirs(&cmp, compare_files);
    }
    else
    {
        char const *dir;

        /* PARENT must be non-NULL here. */
        assert(parent);
        dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

        /* See POSIX 1003.1-2001 for this format. */
        message("Only in %s: %s\n", dir, name0);
        status = EXIT_FAILURE;
    }
}
else
{
    /* We have two files that are not to be compared. */
See POSIX 1003.1-2001 for this format.

message5 ("File %s is a %s while file %s is a %s\n",
file_label[0] ? file_label[0] : cmp.file[0].name,
file_type (&cmp.file[0].stat),
file_type (&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* We get here only if we use lstat(), not stat(). */
    assert (no_dereference_symlinks);

    if (S_ISLNK (cmp.file[0].stat.st_mode)
&& S_ISLNK (cmp.file[1].stat.st_mode))
    {
        /* Compare the values of the symbolic links. */
        char *link_value[2] = { NULL, NULL };

        for (f = 0; f < 2; f++)
        {
            link_value[f] = xreadlink (cmp.file[f].name);
            if (link_value[f] == NULL)
            {
                perror_with_name (cmp.file[f].name);
                status = EXIT_TROUBLE;
                break;
            }
        }

        if (status == EXIT_SUCCESS)
        {
            if ( ! STREQ (link_value[0], link_value[1]))
            {
                message ("Symbolic links %s and %s differ\n",
                    cmp.file[0].name, cmp.file[1].name);
                /* This is a difference. */
                status = EXIT_FAILURE;
            }
        }
    }
    else
    {
        for (f = 0; f < 2; f++)
            free (link_value[f]);
    }
}
/* We have two files that are not to be compared, because one of them is a symbolic link and the other one is not. */

message5 ("File %s is a %s while file %s is a %s\n", 
file_label[0] ? file_label[0] : cmp.file[0].name, 
file_type (&cmp.file[0].stat), 
file_type (&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (files_can_be_treated_as_binary && S_ISREG (cmp.file[0].stat.st_mode) && S_ISREG (cmp.file[1].stat.st_mode) && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n", 
file_label[0] ? file_label[0] : cmp.file[0].name, 
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (cmp.file[1].desc == UNOPENED)
{
    if (same_files)
        cmp.file[1].desc = cmp.file[0].desc;
    else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
}
/* Compare the files, if no error was found. */

if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
  perror_with_name (cmp.file[0].name);
  status = EXIT_TROUBLE;
}
  if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
    && close (cmp.file[1].desc) != 0)
  {
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
  }
/* Now the comparison has been done, if no error prevented it,
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
  if (report_identical_files && !DIR_P (0))
    message ("Files %s and %s are identical
file_label[0] ? file_label[0] : cmp.file[0].name,
  else
  {
    /* Flush stdout so that the user sees differences immediately.
This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
      pfatal_with_name (_("standard output"));
  }
free (free0);
free (free1);
return status;
}

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NAME
Date::Language::Hungarian - Magyar format for Date::Format

SYNOPSIS
my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);

@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);
print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);

print $lang->ctime(time);
print $lang->asctime(@lt);
print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);

See L<Date::Format>.

AUTHOR
Paula Goddard (paula -at- paulacska -dot- com)

LICENCE
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Date::Language::Bulgarian - localization for Date::Format
=head1 DESCRIPTION
This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addresed in the future.
=head1 SYNOPSIS
use strict;
use warnings;
use Date::Language;
local $\=$/;
my $template ='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,':utf8');
foreach my $l(keys %languages){
my $lang = Date::Language->new($l);
my $zone = $languages{$l};
print $/. "$l $zone";
print $lang->time2str($template, $time);
print $lang->time2str($template, $time, $zone);
print $lang->strftime($template, \@lt);
}
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dynamic_config: 1
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  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: TimeDate
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directory:
  - t
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requires: {}
resources:
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version: 2.30

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This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

    perl Makefile.PL
    make
    make test
make install

Please report any bugs/suggestions to <gbarr@pobox.com>

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1.2484 python-ntplib 0.3.3-1_tet.el7
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version 0.3.3 - 2015-07-27
--------------------------
- Change to more permissive MIT license

version 0.3.2 - 2014-02-02
--------------------------
- PEP8 cleanup
- Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
- cleanup
- update FSF address

version 0.3.0 - 2012-09-01

- add a `timeout` parameter to NTPClient.request()
- rewrite tests using the unittest module, add many tests
- cleanup

version 0.2.0 - 2012-04-01

- cleanup
- raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20

- change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24

- cleanup
- fix delay computation (thanks to Michael Frère for pointing that out)

version 0.1.6 - 2009-11-01

- cleanup
- when the server doesn't respond within a reasonable interval, let the application handle socket.timeout

version 0.1.5 - 2009-07-13

- perform stricter source check upon reception of a response
- small cleanup

version 0.1.4 - 2009-06-04

- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18

- fix root delay and root dispersion computation

version 0.1.2 - 2009-05-17

- create request packet after name resolution to avoid name resolution delay
version 0.1.1 - 2009-05-16
-------------------------
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a
  NTPException instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request
to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
-------------------------
- initial release

Found in path(s):
* /opt/cola/permits/1135395558_1613513295.66/0/python-ntplib-0-3-3-zip/python-ntplib-0.3.3/CHANGELOG
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Metadata-Version: 1.1
Name: ntplib
Version: 0.3.3
Summary: Python NTP library
Home-page: http://code.google.com/p/ntplib/
Author: Charles-Francois Natali
Author-email: cf.natali@gmail.com
License: MIT
Description:
ntplib - Python NTP library

Description
-----------
This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode,
leap indicator...). Since it's pure Python, and only depends on core modules, it
should work on any platform with a Python implementation.

Example
-------

>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'

>>> ntplib.leap_to_text(response.leap)
'no warning'

>>> response.root_delay
0.0046844482421875

>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66

Installation
------------
As root::

    # python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g. `/usr/lib/python2.5/`.

Platform: UNKNOWN
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Operating System :: OS Independent
Classifier: Topic :: System :: Networking :: Time Synchronization

from distutils.core import setup

long_description = """
ntplib - Python NTP library

Description
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This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it's pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

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Installation
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As root::

    # python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g.

    /usr/lib/python2.5/.

setup(name='ntplib',
    version='0.3.3',
    description='Python NTP library',
    author='Charles-Francois Natali',
    author_email='cf.natali@gmail.com',
    url='http://code.google.com/p/ntplib/',
    py_modules=['ntplib'],
    license='MIT',
    classifiers=[
        'License :: OSI Approved :: MIT License',
        'Programming Language :: Python',
        'Operating System :: OS Independent',
        'Topic :: System :: Networking :: Time Synchronization'
    ],
    long_description=long_description
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1.2485 elfutils 0.172 2.el7

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.2496 util-linux 2.23.2 26.el7

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 */
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Version 2, June 1991

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e4e662b749da65d023 bsd.img
Set 2nd partition type
2d8e8d2f51a88045db233418dd73f6 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
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<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#     start     end      size     fstype [fsize bsize cpg]
c:    4096   20479    16384    unused        0     0
d:     0    16064    16065    unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#     start     end      size     fstype [fsize bsize cpg]
a:    4096     6144    2049    4.2BSD        0     0     0
c:    4096   20479    16384    unused        0     0
 d:     0   16064    16065    unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
BSD disklabel command (m for help):

0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660           10  AdvFS
4  System V

BSD disklabel command (m for help):

1.2497 gorilla 1.7.3
1.2497.1 Available under license:

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--- vile: txtmode file-encoding=utf-8

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

-------------------------------------------------------------------------------
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-- vile: txtmode file-encoding=utf-8

1.2514 perl-http-message 6.06-6.el7
1.2514.1 Available under license :

No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Headers - Class encapsulating HTTP Message headers

=head1 SYNOPSIS

require HTTP::Headers;
$H = HTTP::Headers->new;
The `HTTP::Headers` class encapsulates HTTP-style message headers. The headers consist of attribute-value pairs also called fields, which may be repeated, and which are printed in a particular order. The field names are case insensitive.

Instances of this class are usually created as member variables of the `HTTP::Request` and `HTTP::Response` classes, internal to the library.

The following methods are available:

- `$h = HTTP::Headers->new`  
  Constructs a new `HTTP::Headers` object. You might pass some initial attribute-value pairs as parameters to the constructor. E.g.:
  
  ```perl
  $h = HTTP::Headers->new(
      Date => 'Thu, 03 Feb 1994 00:00:00 GMT',
      Content_Type => 'text/html; version=3.2',
      Content_Base => 'http://www.perl.org/');
  ```

  The constructor arguments are passed to the `header` method which is described below.

- `$h->clone`  
  Returns a copy of this `HTTP::Headers` object.

- `$h->header( $field )`  
- `$h->header( $field => $value )`  
- `$h->header( $f1 => $v1, $f2 => $v2, ... )`

  Get or set the value of one or more header fields. The header field name ($field) is not case sensitive. To make the life easier for perl users who wants to avoid quoting before the `=>` operator, you can use `_` as a replacement for `-' in header names.
The header() method accepts multiple ($field => $value) pairs, which means that you can update several fields with a single invocation.

The $value argument may be a plain string or a reference to an array of strings for a multi-valued field. If the $value is provided as \nC<undef> then the field is removed. If the $value is not given, then that header field will remain unchanged.

The old value (or values) of the last of the header fields is returned. If no such field exists \nC<undef> will be returned.

A multi-valued field will be returned as separate values in list context and will be concatenated with ", " as separator in scalar context. The HTTP spec (RFC 2616) promise that joining multiple values in this way will not change the semantic of a header field, but in practice there are cases like old-style Netscape cookies (see \nL<HTTP::Cookies>) where ", " is used as part of the syntax of a single field value.

Examples:

```
$header->header(MIME_Version => '1.0',
    User_Agent => 'My-Web-Client/0.01');
$header->header(Accept => "text/html, text/plain, image/*");
$header->header(Accept => [qw(text/html text/plain image/*)]);
@accepts = $header->header('Accept');  # get multiple values
$accepts = $header->header('Accept');  # get values as a single string
```

```
$header->push_header( $field => $value )
```

```
$header->push_header( $f1 => $v1, $f2 => $v2, ... )
```

Add a new field value for the specified header field. Previous values for the same field are retained.

As for the header() method, the field name ($field) is not case sensitive and \'_\_' can be used as a replacement for '\'.

The $value argument may be a scalar or a reference to a list of scalars.

```
$header->push_header(Accept => 'image/jpeg');
$header->push_header(Accept => [map "image/$_", qw(gif png tiff)]);
```

```
$header->init_header( $field => $value )
```

Set the specified header to the given value, but only if no previous value for that field is set.
The header field name ($field) is not case sensitive and '_'
can be used as a replacement for '-'.

The $value argument may be a scalar or a reference to a list of
scalars.

=item $h->remove_header( $field, ... )

This function removes the header fields with the specified names.

The header field names ($field) are not case sensitive and '_'
can be used as a replacement for '-'.

The return value is the values of the fields removed. In scalar
context the number of fields removed is returned.

Note that if you pass in multiple field names then it is generally not
possible to tell which of the returned values belonged to which field.

=item $h->remove_content_headers

This will remove all the header fields used to describe the content of
a message. All header field names prefixed with C<Content-> fall
into this category, as well as C-Allow>, C-Expires> and
C-Last-Modified>. RFC 2616 denotes these fields as I<Entity Header
Fields>.

The return value is a new C<HTTP::Headers> object that contains the
removed headers only.

=item $h->clear

This will remove all header fields.

=item $h->header_field_names

Returns the list of distinct names for the fields present in the
header. The field names have case as suggested by HTTP spec, and the
names are returned in the recommended "Good Practice" order.

In scalar context return the number of distinct field names.

=item $h->scan( \&process_header_field )

Apply a subroutine to each header field in turn. The callback routine
is called with two parameters; the name of the field and a single
value (a string). If a header field is multi-valued, then the
routine is called once for each value. The field name passed to the
callback routine has case as suggested by HTTP spec, and the headers
will be visited in the recommended "Good Practice" order.

Any return values of the callback routine are ignored. The loop can
be broken by raising an exception (C<die>), but the caller of scan() would have to trap the exception itself.

=item $h->as_string

=item $h->as_string( $eol )

Return the header fields as a formatted MIME header. Since it
internally uses the C<scan> method to build the string, the result
will use case as suggested by HTTP spec, and it will follow
recommended "Good Practice" of ordering the header fields. Long header
values are not folded.

The optional $eol parameter specifies the line ending sequence to
use. The default is "\n". Embedded "\n" characters in header field
values will be substituted with this line ending sequence.

=back

=head1 CONVENIENCE METHODS

The most frequently used headers can also be accessed through the
following convenience methods. Most of these methods can both be used to read
and to set the value of a header. The header value is set if you pass
an argument to the method. The old header value is always returned.
If the given header did not exist then C<undef> is returned.

Methods that deal with dates/times always convert their value to system
time (seconds since Jan 1, 1970) and they also expect this kind of
value when the header value is set.

=over 4

=item $h->date

This header represents the date and time at which the message was
originated. I<E.g.>:

$h->date(time);  # set current date

=item $h->expires

This header gives the date and time after which the entity should be
These header fields are used to make a request conditional. If the requested resource has (or has not) been modified since the time specified in this field, then the server will return a C<304 Not Modified> response instead of the document itself.

=item $h->if_modified_since

=item $h->if_unmodified_since

This header indicates the date and time at which the resource was last modified. I<E.g.>:

# check if document is more than 1 hour old
if (my $last_mod = $h->last_modified) {
    if ($last_mod < time - 60*60) {
        ...
    }
}

=item $h->content_type

The Content-Type header field indicates the media type of the message content. I<E.g.>:

$h->content_type('text/html');

The value returned will be converted to lower case, and potential parameters will be chopped off and returned as a separate value if in an array context. If there is no such header field, then the empty string is returned. This makes it safe to do the following:

if ($h->content_type eq 'text/html') {
    # we enter this place even if the real header value happens to
    # be 'TEXT/HTML; version=3.0'
    ...
}

=item $h->content_type_charset

Returns the upper-cased charset specified in the Content-Type header. In list context return the lower-cased bare content type followed by the upper-cased charset. Both values will be C<undef> if not specified in the header.

=item $h->content_is_text
Returns TRUE if the Content-Type header field indicate that the content is textual.

=item $h->content_is_html

Returns TRUE if the Content-Type header field indicate that the content is some kind of HTML (including XHTML). This method can't be used to set Content-Type.

=item $h->content_is_xhtml

Returns TRUE if the Content-Type header field indicate that the content is XHTML. This method can't be used to set Content-Type.

=item $h->content_is_xml

Returns TRUE if the Content-Type header field indicate that the content is XML. This method can't be used to set Content-Type.

=item $h->content_encoding

The Content-Encoding header field is used as a modifier to the media type. When present, its value indicates what additional encoding mechanism has been applied to the resource.

=item $h->content_length

A decimal number indicating the size in bytes of the message content.

=item $h->content_language

The natural language(s) of the intended audience for the message content. The value is one or more language tags as defined by RFC 1766. Eg. "no" for some kind of Norwegian and "en-US" for English the way it is written in the US.

=item $h->title

The title of the document. In libwww-perl this header will be initialized automatically from the E<lt>TITLE>...E<lt>/TITLE> element of HTML documents. I<This header is no longer part of the HTTP standard.>

=item $h->user_agent

This header field is used in request messages and contains information about the user agent originating the request. I<E.g.>: 
$h->user_agent('Mozilla/5.0 (compatible; MSIE 7.0; Windows NT 6.0)');

=item $h->server

The server header field contains information about the software being used by the originating server program handling the request.

=item $h->from

This header should contain an Internet e-mail address for the human user who controls the requesting user agent. The address should be machine-usable, as defined by RFC822. E.g.:

$h->from('King Kong <king@kong.com>);

I<This header is no longer part of the HTTP standard.>

=item $h->referer

Used to specify the address (URI) of the document from which the requested resource address was obtained.

The "Free On-line Dictionary of Computing" as this to say about the word I<referer>:

<World-Wide Web> A misspelling of "referrer" which somehow made it into the {HTTP} standard. A given {web page}'s referer (sic) is the {URL} of whatever web page contains the link that the user followed to the current page. Most browsers pass this information as part of a request.

(1998-10-19)

By popular demand C<referrer> exists as an alias for this method so you can avoid this misspelling in your programs and still send the right thing on the wire.

When setting the referer, this method removes the fragment from the given URI if it is present, as mandated by RFC2616. Note that the removal does I<not> happen automatically if using the header(), push_header() or init_header() methods to set the referer.

=item $h->www_authenticate

This header must be included as part of a C<401 Unauthorized> response. The field value consist of a challenge that indicates the
authentication scheme and parameters applicable to the requested URI.

=item $h->proxy_authenticate

This header must be included in a C<407 Proxy Authentication Required> response.

=item $h->authorization

=item $h->proxy_authorization

A user agent that wishes to authenticate itself with a server or a proxy, may do so by including these headers.

=item $h->authorization_basic

This method is used to get or set an authorization header that use the "Basic Authentication Scheme". In array context it will return two values; the user name and the password. In scalar context it will return I<"uname:password"> as a single string value.

When used to set the header value, it expects two arguments. I<E.g.>:

$h->authorization_basic($uname, $password);

The method will croak if the $uname contains a colon '.'.

=item $h->proxy_authorization_basic

Same as authorization_basic() but will set the "Proxy-Authorization" header instead.

=back

=head1 NON-CANONICALIZED FIELD NAMES

The header field name spelling is normally canonicalized including the `_` to `-` translation. There are some application where this is not appropriate. Prefixing field names with `:` allow you to force a specific spelling. For example if you really want a header field name to show up as C<foo_bar> instead of "Foo-Bar", you might set it like this:

$h->header("::foo_bar" => 1);

These field names are returned with the `:` intact for
$h->header_field_names and the $h->scan callback, but the colons do not show in $h->as_string.
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Found in path(s):
* /opt/cola/permits/1111463129_1606928258.5/0/perl-HTTP-Message-6.06-6.el7-1.src.rpm-cosi-expand-archive-2fgtH1Dy/HTTP-Message-6.06.tar.gz-cosi-expand-archive-wN8iV6EF/HTTP-Message-6.06/lib/HTTP/Headers.pm
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NAME

HTTP::Response - HTTP style response message

SYNOPSIS

Response objects are returned by the request() method of the C<LWP::UserAgent>:

# ...
$response = $ua->request($request)
if ($response->is_success) {
    print $response->decoded_content;
} else {
    print STDERR $response->status_line, "\n";
}

DESCRIPTION

The C<HTTP::Response> class encapsulates HTTP style responses. A response consists of a response line, some headers, and a content body. Note that the LWP library uses HTTP style responses even for non-HTTP protocol schemes. Instances of this class are usually created and returned by the request() method of an C<LWP::UserAgent> object.

C<HTTP::Response> is a subclass of C<HTTP::Message> and therefore inherits its methods. The following additional methods are available:

over 4

$r = HTTP::Response->new( $code )

$r = HTTP::Response->new( $code, $msg )
=item $r = HTTP::Response->new( $code, $msg, $header )

=item $r = HTTP::Response->new( $code, $msg, $header, $content )

Constructs a new C<HTTP::Response> object describing a response with
response code $code and optional message $msg. The optional $header
argument should be a reference to a C<HTTP::Headers> object or a
plain array reference of key/value pairs. The optional $content
argument should be a string of bytes. The meanings of these arguments are
described below.

=item $r = HTTP::Response->parse( $str )

This constructs a new response object by parsing the given string.

=item $r->code

=item $r->code( $code )

This is used to get/set the code attribute. The code is a 3 digit
number that encode the overall outcome of an HTTP response. The
C<HTTP::Status> module provide constants that provide mnemonic names
for the code attribute.

=item $r->message

=item $r->message( $message )

This is used to get/set the message attribute. The message is a short
human readable single line string that explains the response code.

=item $r->header( $field )

=item $r->header( $field => $value )

This is used to get/set header values and it is inherited from
C<HTTP::Headers> via C<HTTP::Message>. See L<HTTP::Headers> for
details and other similar methods that can be used to access the
headers.

=item $r->content

=item $r->content( $bytes )

This is used to get/set the raw content and it is inherited from the
C<HTTP::Message> base class. See L<HTTP::Message> for details and
other methods that can be used to access the content.
This will return the content after any Content-Encoding and charsets have been decoded. See L<HTTP::Message> for details.

This is used to get/set the request attribute. The request attribute is a reference to the request that caused this response. It does not have to be the same request passed to the $ua->request() method, because there might have been redirects and authorization retries in between.

This is used to get/set the previous attribute. The previous attribute is used to link together chains of responses. You get chains of responses if the first response is redirect or unauthorized. The value is undef if this is the first response in a chain.

Note that the method $r->redirects is provided as a more convenient way to access the response chain.

Returns the string "E<lt>code> E<lt>message>". If the message attribute is not set then the official name of E<lt>code> (see L<HTTP::Status>) is substituted.

Returns the base URI for this response. The return value will be a reference to a URI object.

The base URI is obtained from one the following sources (in priority order):

Embedded in the document content, for instance <BASE HREF="..."> in HTML documents.
A "Content-Base:" or a "Content-Location:" header in the response.

For backwards compatibility with older HTTP implementations we will also look for the "Base:" header.

The URI used to request this response. This might not be the original URI that was passed to $ua->request() method, because we might have received some redirect responses first.

If none of these sources provide an absolute URI, undef is returned.

When the LWP protocol modules produce the HTTP::Response object, then any base URI embedded in the document (step 1) will already have initialized the "Content-Base:" header. This means that this method only performs the last 2 steps (the content is not always available either).

Returns a filename for this response. Note that doing sanity checks on the returned filename (eg. removing characters that cannot be used on the target filesystem where the filename would be used, and laundering it for security purposes) are the caller's responsibility; the only related thing done by this method is that it makes a simple attempt to return a plain filename with no preceding path segments.

The filename is obtained from one the following sources (in priority order):

A "Content-Disposition:" header in the response. Proper decoding of RFC 2047 encoded filenames requires the C<MIME::QuotedPrint> (for "Q" encoding), C<MIME::Base64> (for "B" encoding), and C<Encode> modules.

A "Content-Location:" header in the response.
The URI used to request this response. This might not be the original URI that was passed to $ua->request() method, because we might have received some redirect responses first.

=back

If a filename cannot be derived from any of these sources, undef is returned.

=item $r->as_string

=item $r->as_string( $eol )

Returns a textual representation of the response.

=item $r->is_info

=item $r->is_success

=item $r->is_redirect

=item $r->is_error

These methods indicate if the response was informational, successful, a redirection, or an error. See L<HTTP::Status> for the meaning of these.

=item $r->error_as_HTML

Returns a string containing a complete HTML document indicating what error occurred. This method should only be called when $r->is_error is TRUE.

=item $r->redirects

Returns the list of redirect responses that lead up to this response by following the $r->previous chain. The list order is oldest first.

In scalar context return the number of redirect responses leading up to this one.

=item $r->current_age

Calculates the "current age" of the response as specified by RFC 2616 section 13.2.3. The age of a response is the time since it was sent by the origin server. The returned value is a number representing the age in seconds.
Calculates the "freshness lifetime" of the response as specified by RFC 2616 section 13.2.4. The "freshness lifetime" is the length of time between the generation of a response and its expiration time. The returned value is the number of seconds until expiry.

If the response does not contain an "Expires" or a "Cache-Control" header, then this function will apply some simple heuristic based on the "Last-Modified" header to determine a suitable lifetime. The following options might be passed to control the heuristics:

- `heuristic_expiry` => $bool
  If passed as a FALSE value, don't apply heuristics and just return C<undef> when "Expires" or "Cache-Control" is lacking.

- `h_lastmod_fraction` => $num
  This number represent the fraction of the difference since the "Last-Modified" timestamp to make the expiry time. The default is C<0.10>, the suggested typical setting of 10% in RFC 2616.

- `h_min` => $sec
  This is the lower limit of the heuristic expiry age to use. The default is C<60> (1 minute).

- `h_max` => $sec
  This is the upper limit of the heuristic expiry age to use. The default is C<86400> (24 hours).

- `h_default` => $sec
  This is the expiry age to use when nothing else applies. The default is C<3600> (1 hour) or "h_min" if greater.

Returns TRUE if the response is fresh, based on the values of freshness_lifetime() and current_age(). If the response is no longer fresh, then it has to be re-fetched or re-validated by the origin server.
Options might be passed to control expiry heuristics, see the
description of freshness_lifetime().

$item r->fresh_until( %opt )

Returns the time (seconds since epoch) when this entity is no longer fresh.

Options might be passed to control expiry heuristics, see the
description of freshness_lifetime().

=head1 SEE ALSO

L<HTTP::Headers>, L<HTTP::Message>, L<HTTP::Status>, L<HTTP::Request>

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Found in path(s):
* /opt/cola/permits/1111463129_1606928258.5/0/perl-HTTP-Message-6.06-6.el7-1.src.rpm-cosi-expand-archive-2fgtH1Dy/HTTP-Message-6.06.tar.gz-cosi-expand-archive-wN8iV6EF/HTTP-Message-6.06/lib/HTTP/Response.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Message - HTTP style message (base class)

=head1 SYNOPSIS

use base 'HTTP::Message';

=head1 DESCRIPTION

An C<HTTP::Message> object contains some headers and a content body.
The following methods are available:

=over 4

=item $mess = HTTP::Message->new

=item $mess = HTTP::Message->new( $headers )
=item $mess = HTTP::Message->new( $headers, $content )

This constructs a new message object. Normally you would want construct C&lt;HTTP::Request&gt; or C&lt;HTTP::Response&gt; objects instead.

The optional $header argument should be a reference to an C&lt;HTTP::Headers&gt; object or a plain array reference of key/value pairs. If an C&lt;HTTP::Headers&gt; object is provided then a copy of it will be embedded into the constructed message, i.e. it will not be owned and can be modified afterwards without affecting the message.

The optional $content argument should be a string of bytes.

=item $mess = HTTP::Message-&gt;parse( $str )

This constructs a new message object by parsing the given string.

=item $mess-&gt;headers

Returns the embedded C&lt;HTTP::Headers&gt; object.

=item $mess-&gt;headers_as_string

=item $mess-&gt;headers_as_string( $eol )

Call the as_string() method for the headers in the message. This will be the same as

$mess-&gt;headers-&gt;as_string

but it will make your program a whole character shorter :-)

=item $mess-&gt;content

=item $mess-&gt;content( $bytes )

The content() method sets the raw content if an argument is given. If no argument is given the content is not touched. In either case the original raw content is returned.

Note that the content should be a string of bytes. Strings in perl can contain characters outside the range of a byte. The C&lt;Encode&gt; module can be used to turn such strings into a string of bytes.

=item $mess-&gt;add_content( $bytes )

The add_content() methods appends more data bytes to the end of the
current content buffer.

=item $mess->add_content_utf8( $string )

The add_content_utf8() method appends the UTF-8 bytes representing the string to the end of the current content buffer.

=item $mess->content_ref

=item $mess->content_ref( \$bytes )

The content_ref() method will return a reference to content buffer string. It can be more efficient to access the content this way if the content is huge, and it can even be used for direct manipulation of the content, for instance:

${$res->content_ref} =~ s/\bfoo\b/bar/g;

This example would modify the content buffer in-place.

If an argument is passed it will setup the content to reference some external source. The content() and add_content() methods will automatically dereference scalar references passed this way. For other references content() will return the reference itself and add_content() will refuse to do anything.

=item $mess->content_charset

This returns the charset used by the content in the message. The charset is either found as the charset attribute of the C<Content-Type> header or by guessing.

See [http://www.w3.org/TR/REC-html40/charset.html#spec-char-encoding](http://www.w3.org/TR/REC-html40/charset.html#spec-char-encoding) for details about how charset is determined.

=item $mess->decoded_content( %options )

Returns the content with any C<Content-Encoding> undone and for textual content the raw content encoded to Perl's Unicode strings. If the C<Content-Encoding> or C<charset> of the message is unknown this method will fail by returning C<undef>.

The following options can be specified.

=over

=item C<charset>

This override the charset parameter for text content. The value C<none> can used to suppress decoding of the charset.

=item C<default_charset>

This override the default charset guessed by content_charset() or if that fails "ISO-8859-1".

=item C<alt_charset>

If decoding fails because the charset specified in the Content-Type header isn't recognized by Perl's Encode module, then try decoding using this charset instead of failing. The C<alt_charset> might be specified as C<none> to simply return the string without any decoding of charset as alternative.

=item C<charset_strict>

Abort decoding if malformed characters is found in the content. By default you get the substitution character ("\x{FFFD}") in place of malformed characters.

=item C<raise_error>

If TRUE then raise an exception if not able to decode content. Reason might be that the specified C<Content-Encoding> or C<charset> is not supported. If this option is FALSE, then decoded_content() will return C<undef> on errors, but will still set $@.

=item C<ref>

If TRUE then a reference to decoded content is returned. This might be more efficient in cases where the decoded content is identical to the raw content as no data copying is required in this case.

=back

=item $mess->decodable

=item HTTP::Message::decodable()

This returns the encoding identifiers that decoded_content() can process. In scalar context returns a comma separated string of identifiers.

This value is suitable for initializing the C<Accept-Encoding> request header field.

=item $mess->decode
This method tries to replace the content of the message with the
decoded version and removes the C<Content-Encoding> header. Returns
TRUE if successful and FALSE if not.

If the message does not have a C<Content-Encoding> header this method
does nothing and returns TRUE.

Note that the content of the message is still bytes after this method
has been called and you still need to call decoded_content() if you
want to process its content as a string.

=item $mess->encode( $encoding, ... )

Apply the given encodings to the content of the message. Returns TRUE
if successful. The "identity" (non-)encoding is always supported; other
currently supported encodings, subject to availability of required
additional modules, are "gzip", "deflate", "x-bzip2" and "base64".

A successful call to this function will set the C<Content-Encoding>
header.

Note that C<multipart/*> or C<message/*> messages can't be encoded and
this method will croak if you try.

=item $mess->parts

=item $mess->parts( @parts )

=item $mess->parts( \@parts )

Messages can be composite, i.e. contain other messages. The composite
messages have a content type of C<multipart/*> or C<message/*>. This
method give access to the contained messages.

The argumentless form will return a list of C<HTTP::Message> objects.
If the content type of $msg is not C<multipart/*> or C<message/*> then
this will return the empty list. In scalar context only the first
object is returned. The returned message parts should be regarded as
read-only (future versions of this library might make it possible
to modify the parent by modifying the parts).

If the content type of $msg is C<message/*> then there will only be
one part returned.

If the content type is C<message/http>, then the return value will be
either an C<HTTP::Request> or an C<HTTP::Response> object.
If a @parts argument is given, then the content of the message will be modified. The array reference form is provided so that an empty list can be provided. The @parts array should contain C<HTTP::Message> objects. The @parts objects are owned by $mess after this call and should not be modified or made part of other messages.

When updating the message with this method and the old content type of $mess is not C<multipart/*> or C<message/*>, then the content type is set to C<multipart/mixed> and all other content headers are cleared.

This method will croak if the content type is C<message/*> and more than one part is provided.

=item $mess->add_part( $part )

This will add a part to a message. The $part argument should be another C<HTTP::Message> object. If the previous content type of $mess is not C<multipart/*> then the old content (together with all content headers) will be made part #1 and the content type made C<multipart/mixed> before the new part is added. The $part object is owned by $mess after this call and should not be modified or made part of other messages.

There is no return value.

=item $mess->clear

Will clear the headers and set the content to the empty string. There is no return value

=item $mess->protocol

=item $mess->protocol( $proto )

Sets the HTTP protocol used for the message. The protocol() is a string like C<HTTP/1.0> or C<HTTP/1.1>.

=item $mess->clone

Returns a copy of the message object.

=item $mess->as_string

=item $mess->as_string( $eol )

Returns the message formatted as a single string.

The optional $eol parameter specifies the line ending sequence to use.
The default is "\n". If no $eol is given then as_string will ensure that the returned string is newline terminated (even when the message content is not). No extra newline is appended if an explicit $eol is passed.

=item $mess->dump( %opt )

Returns the message formatted as a string. In void context print the string.

This differs from C<< $mess->as_string >> in that it escapes the bytes of the content so that it's safe to print them and it limits how much content to print. The escapes syntax used is the same as for Perl's double quoted strings. If there is no content the string "(no content)" is shown in its place.

Options to influence the output can be passed as key/value pairs. The following options are recognized:

=over
=item maxlength => $num

How much of the content to show. The default is 512. Set this to 0 for unlimited.

If the content is longer then the string is chopped at the limit and the string "...
(### more bytes not shown)" appended.

=item no_content => $str

Replaces the "(no content)" marker.

=item prefix => $str

A string that will be prefixed to each line of the dump.

=back
=back

All methods unknown to C<HTTP::Message> itself are delegated to the C<HTTP::Headers> object that is part of every message. This allows convenient access to these methods. Refer to L<HTTP::Headers> for details of these methods:

$mess->header( $field => $val )
$mess->push_header( $field => $val )
$mess->init_header( $field => $val )
$mess->remove_header($field)
$mess->remove_content_headers
$mess->header_field_names
$mess->scan( \&doit )

$mess->date
$mess->expires
$mess->if_modified_since
$mess->if_unmodified_since
$mess->last_modified
$mess->content_type
$mess->content_encoding
$mess->content_length
$mess->content_language
$mess->title
$mess->user_agent
$mess->server
$mess->from
$mess->referer
$mess->www_authenticate
$mess->authorization
$mess->proxy_authorization
$mess->authorization_basic
$mess->proxy_authorization_basic

=head1 COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1111463129_1606928258.5/0/perl-HTTP-Message-6.06-6.el7-1.src.rpm-cosi-expand-archive-2fgtH1Dy/HTTP-Message-6.06.tar.gz-cosi-expand-archive-wN8iV6EF/HTTP-Message-6.06/lib/HTTP/Message.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Request::Common - Construct common HTTP::Request objects

=head1 SYNOPSIS

use HTTP::Request::Common;
$ua = LWP::UserAgent->new;
$ua->request(GET 'http://www.sn.no/');
$ua->request(POST 'http://somewhere/foo', [foo => bar, bar => foo]);
This module provides functions that return newly created \texttt{HTTP::Request} objects. These functions are usually more convenient to use than the standard \texttt{HTTP::Request} constructor for the most common requests. The following functions are provided:

\begin{itemize}
\item \texttt{GET $url}
\item \texttt{GET $url, Header => Value,...}
\end{itemize}

The \texttt{GET} function returns an \texttt{HTTP::Request} object initialized with the "GET" method and the specified URL. It is roughly equivalent to the following call

\begin{verbatim}
HTTP::Request->new(
    GET => $url,
    HTTP::Headers->new(Header => Value,...),
)
\end{verbatim}

but is less cluttered. What is different is that a header named \texttt{Content} will initialize the content part of the request instead of setting a header field. Note that GET requests should normally not have a content, so this hack makes more sense for the \texttt{PUT} and \texttt{POST} functions described below.

The \texttt{get(...)} method of \texttt{LWP::UserAgent} exists as a shortcut for \texttt{$ua->request(GET ...)}.

\begin{itemize}
\item \texttt{HEAD $url}
\item \texttt{HEAD $url, Header => Value,...}
\end{itemize}

Like \texttt{GET}() but the method in the request is "HEAD".

The \texttt{head(...)} method of "LWP::UserAgent" exists as a shortcut for \texttt{$ua->request(HEAD ...)}.

\begin{itemize}
\item \texttt{PUT $url}
\item \texttt{PUT $url, Header => Value,...}
\item \texttt{PUT $url, Header => Value,..., Content => $content}
\end{itemize}

Like \texttt{GET}() but the method in the request is "PUT".
The content of the request can be specified using the "Content" pseudo-header. This steals a bit of the header field namespace as there is no way to directly specify a header that is actually called "Content". If you really need this you must update the request returned in a separate statement.

=item DELETE $url

=item DELETE $url, Header => Value, ...

Like GET() but the method in the request is "DELETE". This function is not exported by default.

=item POST $url

=item POST $url, Header => Value, ...

=item POST $url, $form_ref, Header => Value, ...

=item POST $url, Header => Value, ..., Content => $form_ref

=item POST $url, Header => Value, ..., Content => $content

This works mostly like PUT() with "POST" as the method, but this function also takes a second optional array or hash reference parameter $form_ref. As for PUT() the content can also be specified directly using the "Content" pseudo-header, and you may also provide the $form_ref this way.

The $form_ref argument can be used to pass key/value pairs for the form content. By default we will initialize a request using the C<application/x-www-form-urlencoded> content type. This means that you can emulate an HTML E<form> POSTing like this:

```perl
POST 'http://www.perl.org/survey.cgi',
    [ name   => 'Gisle Aas',
      email  => 'gisle@aas.no',
      gender => 'M',
      born   => '1964',
      perc   => '3%',
    ];
```

This will create an HTTP::Request object that looks like this:

```plaintext
POST http://www.perl.org/survey.cgi
Content-Length: 66
Content-Type: application/x-www-form-urlencoded
```
name=Gisle%20Aas&email=gisle%40aas.no&gender=M&born=1964&perc=3%25

Multivalued form fields can be specified by either repeating the field name or by passing the value as an array reference.

The POST method also supports the C<multipart/form-data> content used for I<Form-based File Upload> as specified in RFC 1867. You trigger this content format by specifying a content type of C<form-data> as one of the request headers. If one of the values in the $form_ref is an array reference, then it is treated as a file part specification with the following interpretation:

[ $file, $filename, Header => Value... ]
[ undef, $filename, Header => Value,..., Content => $content ]

The first value in the array ($file) is the name of a file to open. This file will be read and its content placed in the request. The routine will croak if the file can't be opened. Use an C<undef> as $file value if you want to specify the content directly with a C<Content> header. The $filename is the filename to report in the request. If this value is undefined, then the basename of the $file will be used. You can specify an empty string as $filename if you want to suppress sending the filename when you provide a $file value.

If a $file is provided by no C<Content-Type> header, then C<Content-Type> and C<Content-Encoding> will be filled in automatically with the values returned by LWP::MediaTypes::guess_media_type()

Sending my F<~/.profile> to the survey used as example above can be achieved by this:

POST 'http://www.perl.org/survey.cgi',
  Content_Type => 'form-data',
  Content      => [ name => 'Gisle Aas',
                    email => 'gisle@aas.no',
                    gender => 'M',
                    born  => '1964',
                    init => ["ENV[HOME]/.profile"],
                    ]

This will create an HTTP::Request object that almost looks this (the boundary and the content of your F<~/.profile> is likely to be different):

POST http://www.perl.org/survey.cgi
  Content-Length: 388
  Content-Type: multipart/form-data; boundary="6G+f"
If you set the $DYNAMIC_FILE_UPLOAD variable (exportable) to some TRUE value, then you get back a request object with a subroutine closure as the content attribute. This subroutine will read the content of any files on demand and return it in suitable chunks. This allow you to upload arbitrary big files without using lots of memory. You can even upload infinite files like F<dev/audio> if you wish; however, if the file is not a plain file, there will be no Content-Length header defined for the request. Not all servers (or server applications) like this. Also, if the file(s) change in size between the time the Content-Length is calculated and the time that the last chunk is delivered, the subroutine will C<Croak>.

The post(...) method of "LWP::UserAgent" exists as a shortcut for $ua->request(POST ...).
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=cut

Found in path(s):
* /opt/cola/permits/1111463129_1606928258.5/0/perl-HTTP-Message-6.06-6.el7-1.src.rpm-cosi-expand-archive-2fgtH1Dy/HTTP-Message-6.06.tar.gz-cosi-expand-archive-wN8iV6EF/HTTP-Message-6.06/lib/HTTP/Request/Common.pm
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1111463129_1606928258.5/0/perl-HTTP-Message-6.06-6.el7-1.src.rpm-cosi-expand-archive-2fgtH1Dy/perl-HTTP-Message.spec
No license file was found, but licenses were detected in source scan.

The HTTP-Message distribution contains classes useful for representing the messages passed in HTTP style communication. These are classes representing requests, responses and the headers contained within them.

The following classes are provided:

HTTP::Message  base class (what's common between requests and responses)
- HTTP::Request request on a resource (subclass of message)
- HTTP::Response response from the resource (subclass of message)
HTTP::Headers  headers embedded in messages

Other related modules:

HTTP::Config  configuration of request/response handling
HTTP::Headers::Util helper functions for parsing of HTTP header values
HTTP::Request::Common helper functions for constructing requests
HTTP::Status  symbolic names for the HTTP response status codes

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Found in path(s):
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No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Request - HTTP style request message

=head1 SYNOPSIS

require HTTP::Request;
$request = HTTP::Request->new(GET => 'http://www.example.com/');

and usually used like this:

$ua = LWP::UserAgent->new;
$response = $ua->request($request);

=head1 DESCRIPTION

C<HTTP::Request> is a class encapsulating HTTP style requests, consisting of a request line, some headers, and a content body. Note that the LWP library uses HTTP style requests even for non-HTTP protocols. Instances of this class are usually passed to the request() method of an C<LWP::UserAgent> object.

C<HTTP::Request> is a subclass of C<HTTP::Message> and therefore inherits its methods. The following additional methods are available:

=over 4

=item $r = HTTP::Request->new( $method, $uri )

=item $r = HTTP::Request->new( $method, $uri, $header )

=item $r = HTTP::Request->new( $method, $uri, $header, $content )

Constructs a new C<HTTP::Request> object describing a request on the object $uri using method $method. The $method argument must be a string. The $uri argument can be either a string, or a reference to a C<URI> object. The optional $header argument should be a reference to an C<HTTP::Headers> object or a plain array reference of key/value pairs. The optional $content argument should be a string of bytes.

=item $r = HTTP::Request->parse( $str )

This constructs a new request object by parsing the given string.

=item $r->method
=item $r->method( $val )

This is used to get/set the method attribute. The method should be a short string like "GET", "HEAD", "PUT" or "POST".

=item $r->uri

=item $r->uri( $val )

This is used to get/set the uri attribute. The $val can be a reference to a URI object or a plain string. If a string is given, then it should be parseable as an absolute URI.

=item $r->header( $field )

=item $r->header( $field => $value )

This is used to get/set header values and it is inherited from C<HTTP::Headers> via C<HTTP::Message>. See L<HTTP::Headers> for details and other similar methods that can be used to access the headers.

=item $r->accept_decodable

This will set the C<Accept-Encoding> header to the list of encodings that decoded_content() can decode.

=item $r->content

=item $r->content( $bytes )

This is used to get/set the content and it is inherited from the C<HTTP::Message> base class. See L<HTTP::Message> for details and other methods that can be used to access the content.

Note that the content should be a string of bytes. Strings in perl can contain characters outside the range of a byte. The C<Encode> module can be used to turn such strings into a string of bytes.

=item $r->as_string

=item $r->as_string( $eol )

Method returning a textual representation of the request.

=back

=head1 SEE ALSO
=head1 COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1111463129_1606928258.5/0/perl-HTTP-Message-6.06-6.el7-1.src.rpm-cosi-expand-archive-2fgtH1Dy/HTTP-Message-6.06.tar.gz-cosi-expand-archive-wN8iV6EF/HTTP-Message-6.06/lib/HTTP/Request.pm
No license file was found, but licenses were detected in source scan.

license: perl

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* /opt/cola/permits/1111463129_1606928258.5/0/perl-HTTP-Message-6.06-6.el7-1.src.rpm-cosi-expand-archive-2fgtH1Dy/HTTP-Message-6.06.tar.gz-cosi-expand-archive-wN8iV6EF/HTTP-Message-6.06/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Headers::Util - Header value parsing utility functions

=head1 SYNOPSIS

use HTTP::Headers::Util qw(split_header_words);
@values = split_header_words($h->header("Content-Type"));

=head1 DESCRIPTION

This module provides a few functions that helps parsing and construction of valid HTTP header values. None of the functions are exported by default.

The following functions are available:

=over 4

=item split_header_words( @header_values )

This function will parse the header values given as argument into a list of anonymous arrays containing key/value pairs. The function knows how to deal with ",", ";" and ";=" as well as quoted values after
"=". A list of space separated tokens are parsed as if they were separated by ";".

If the @header_values passed as argument contains multiple values, then they are treated as if they were a single value separated by comma ",".

This means that this function is useful for parsing header fields that follow this syntax (BNF as from the HTTP/1.1 specification, but we relax the requirement for tokens).

headers = #header
header = (token | parameter)*( [";"] (token | parameter))

token = 1*<any CHAR except CTLs or separators>
separators = "(" | ")" | "<" | ">" | "@" |"," | ";" | ":" | "\" | "><" |":" | "\" | ">" |":" | "\" | ">"
quoted-string = ( "<" *(qdtext | quoted-pair ) ">" )
qdtext = <any TEXT except ""> quoted-pair = "\" CHAR

parameter = attribute "=" value
attribute = token
value = token | quoted-string

Each I<header> is represented by an anonymous array of key/value pairs. The keys will be all be forced to lower case.
The value for a simple token (not part of a parameter) is C<undef>.
Syntactically incorrect headers will not necessarily be parsed as you would want.

This is easier to describe with some examples:

split_header_words('foo="bar"; port="80,81"; DISCARD, BAR=bar');
split_header_words('text/html; charset="iso-8859-1"');
split_header_words('Basic realm=""foo\bar""');

will return

[foo=>'bar', port=>'80,81', discard=>'undef], [bar=>'baz']
['text/html' => undef, charset => 'iso-8859-1']
[basic => undef, realm => "\foo\bar"]

If you don't want the function to convert tokens and attribute keys to lower case you can call it as C<_split_header_words> instead (with a
leading underscore).

=item join_header_words( @arrays )

This will do the opposite of the conversion done by split_header_words().
It takes a list of anonymous arrays as arguments (or a list of
key/value pairs) and produces a single header value. Attribute values
are quoted if needed.

Example:

    join_header_words("text/plain" => undef, charset => "iso-8859/1");
    join_header_words("text/plain" => undef, charset => "iso-8859/1");

will both return the string:

    text/plain; charset="iso-8859/1"

=back

=head1 COPYRIGHT

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modify it under the same terms as Perl itself.

Found in path(s):
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No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Config - Configuration for request and response objects

=head1 SYNOPSIS

use HTTP::Config;
my $c = HTTP::Config->new;
$c->add(m_domain => ".example.com", m_scheme => "http", verbose => 1);

use HTTP::Request;
my $request = HTTP::Request->new(GET => "http://www.example.com");

if (my @m = $c->matching($request)) {
    print "Yadayada\n" if $m[0]->{verbose};
An \texttt{HTTP::Config} object is a list of entries that can be matched against request or request/response pairs. Its purpose is to hold configuration data that can be looked up given a request or response object.

Each configuration entry is a hash. Some keys specify matching to occur against attributes of request/response objects. Other keys can be used to hold user data.

The following methods are provided:

\begin{verbatim}
=item $conf = HTTP::Config->new

Constructs a new empty \texttt{HTTP::Config} object and returns it.

=item $conf->entries

Returns the list of entries in the configuration object.
In scalar context returns the number of entries.

=item $conf->empty

Return true if there are no entries in the configuration object.
This is just a shorthand for \texttt{not $conf->entries}.

=item $conf->add( %matchspec, %other )

=item $conf->add( \%entry )

Adds a new entry to the configuration.
You can either pass separate key/value pairs or a hash reference.

=item $conf->remove( %spec )

Removes (and returns) the entries that have matches for all the key/value pairs in \%spec.
If \%spec is empty this will match all entries; so it will empty the configuration object.

=item $conf->matching( $uri, $request, $response )

=item $conf->matching( $uri )

=item $conf->matching( $request )
\end{verbatim}
=item $conf->matching( $response )

Returns the entries that match the given $uri, $request and $response triplet.

If called with a single $request object then the $uri is obtained by calling its 'uri_canonical' method.
If called with a single $response object, then the request object is obtained by calling its 'request' method;
and then the $uri is obtained as if a single $request was provided.

The entries are returned with the most specific matches first.
In scalar context returns the most specific match or C<undef> in none match.

=item $conf->add_item( $item, %matchspec )

=item $conf->remove_items( %spec )

=item $conf->matching_items( $uri, $request, $response )

Wrappers that hides the entries themselves.

=back

=head2 Matching

The following keys on a configuration entry specify matching. For all
of these you can provide an array of values instead of a single value.
The entry matches if at least one of the values in the array matches.

Entries that require match against a response object attribute will never match
unless a response object was provided.

=over

=item m_scheme => $scheme

Matches if the URI uses the specified scheme; e.g. "http".

=item m_secure => $bool

If $bool is TRUE; matches if the URI uses a secure scheme. If $bool
is FALSE; matches if the URI does not use a secure scheme. An example
of a secure scheme is "https".

=item m_host_port => "$hostname:$port"

Matches if the URI's host_port method return the specified value.

=item m_host => $hostname
Matches if the URI's host method returns the specified value.

=item m_port => $port

Matches if the URI's port method returns the specified value.

=item m_domain => ".$domain"

Matches if the URI's host method return a value that within the given domain. The hostname "www.example.com" will for instance match the domain ".com".

=item m_path => $path

Matches if the URI's path method returns the specified value.

=item m_path_prefix => $path

Matches if the URI's path is the specified path or has the specified path as prefix.

=item m_path_match => $Regexp

Matches if the regular expression matches the URI's path. Eg. qr/\.html$/.

=item m_method => $method

Matches if the request method matches the specified value. Eg. "GET" or "POST".

=item m_code => $digit

=item m_code => $status_code

Matches if the response status code matches. If a single digit is specified; matches for all response status codes beginning with that digit.

=item m_proxy => $url

Matches if the request is to be sent to the given Proxy server.

=item m_media_type => "*/*

=item m_media_type => "text/*"

=item m_media_type => "html"

=item m_media_type => "xhtml"
Matches if the response media type matches.

With a value of "html" matches if $response->content_is_html returns TRUE.
With a value of "xhtml" matches if $response->content_is_xhtml returns TRUE.

Matches if the URI object provides the method.

Matches if the URI's $method method returns the given value.

Matches if either the request or the response have a header $field with the given value.

Matches if the response object has that key, or the entry has the given value.

=back

=head1 SEE ALSO

L<URI>, L<HTTP::Request>, L<HTTP::Response>

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1.2515 activation 1.1

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1.2519 plexus-utils 3.1.0

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1.2525 libsemanage 2.0.43 5.1.el6

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  */opt/cola/permits/1138401128_1614282219.04/0/python-configobj-4.6.0-3.el6-1.src.rpm-cosi-expand-archive-GAEnjFqk/configobj-4.6.0.zip-cosi-expand-archive-KLg9NpRM/configobj-4.6.0/setup.py

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Metadata-Version: 1.0
Name: configobj
Version: 4.6.0
Summary: Config file reading, writing, and validation.
Home-page: http://www.voidspace.org.uk/python/configobj.html
Author: Michael Foord & Nicola Larosa
Author-email: fuzzyman@voidspace.org.uk
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Description: UNKNOWN
Platform: Platform Independent

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Authors: Ian Bicking, Michael Foord
Contact: fuzzyman@voidspace.org.uk
Date: 2005/08/26
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Based on ``blue_box.css`` by Ian Bicking and ``default.css`` revision 3442

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Based on `blue_box.css` by Ian Bicking
and `default.css` revision 3442
-->

Validation Schema with validate.py

Using the Validator class

:Authors: `Michael Foord`, `Nicola Larosa`, `Mark Andrews`
:Version: Validate 1.0.1
Introduction

Validation is used to check that supplied values conform to a specification.

The value can be supplied as a string, e.g. from a config file. In this case the check will also convert the value to the required type. This allows you to add validation as a transparent layer to access data stored as strings. The validation checks that the data is correct and converts it to the expected type.

Checks are also strings, and are easy to write. One generic system can be used to validate information from different sources via a single consistent mechanism.

Checks look like function calls, and map to function calls. They can include parameters and keyword arguments. These arguments are passed to the relevant function by the `Validator` instance, along with the value being checked.

The syntax for checks also allows for specifying a default value. This default value can be `None`, no matter what the type of the check. This can be used to indicate that a value was missing, and so holds no useful value.

Functions either return a new value, or raise an exception. See `Validator Exceptions` for the low down on the exception classes that `validate.py` defines.

Some standard functions are provided, for basic data types; these come built into every validator. Additional checks are easy to write: they can be provided
when the `Validator` is instantiated, or added afterwards.

Validate was primarily written to support ConfigObj, but is designed to be applicable to many other situations.

For support and bug reports please use the ConfigObj `Mailing List`.

.. _ConfigObj: http://www.voidspace.org.uk/python/configobj.html

**Downloading**

The current version is **1.0.1**, dated 9th January 2010.

You can get obtain validate in the following ways:

**Files**

* validate.py from Voidspace

* configobj.zip from Voidspace - See the homepage of ConfigObj for the latest version and download links.

  This contains validate.py and `this document` (As well as ConfigObj and the ConfigObj documentation).

* The latest development version can be obtained from the `Subversion Repository`.

**Documentation**

*configobj.zip* contains `this document`.

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.. _configobj.py: http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj.py
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The standard functions
The standard functions come built-in to every `Validator` instance. They work with the following basic data types:

* integer
* float
* boolean
* string
* ip_addr

plus lists of these datatypes.

Adding additional checks is done through coding simple functions.

The full set of standard checks are:

`:integer`: matches integer values (including negative). Takes optional `min` and `max` arguments:

```python
    integer()
    integer(3, 9)  # any value from 3 to 9
    integer(min=0) # any positive value
    integer(max=9)
```

`:float`: matches float values

Has the same parameters as the integer check.

`:boolean`: matches boolean values: `True` or `False`.

Acceptable string values for `True` are:

true, on, yes, 1

Acceptable string values for `False` are:

false, off, no, 0

Any other value raises an error.

`:string`: matches any string. Takes optional keyword args `min` and `max` to specify min and max length of string.

`:ip_addr`: matches an Internet Protocol address, v.4, represented by a dotted-quad string, i.e. `1.2.3.4`.

`:list`: matches any list. Takes optional keyword args `min`, and `max` to specify min and max sizes of the list. The list checks always return a list.
:force_list: matches any list, but if a single value is passed in will coerce it into a list containing that value. Useful for configobj if the user forgot the trailing comma to turn a single value into a list.

:tuple: matches any list. This check returns a tuple rather than a list.

:int_list': Matches a list of integers. Takes the same arguments as list.

:float_list': Matches a list of floats. Takes the same arguments as list.

:bool_list': Matches a list of boolean values. Takes the same arguments as list.

:string_list': Matches a list of strings. Takes the same arguments as list.

:ip_addr_list': Matches a list of IP addresses. Takes the same arguments as list.

:mixed_list': Matches a list with different types in specific positions. List size must match the number of arguments.

Each position can be one of::

    int, str, boolean, float, ip_addr

So to specify a list with two strings followed by two integers, you write the check as::

    mixed_list(str, str, int, int)

:pass': matches everything: it never fails and the value is unchanged. It is also the default if no check is specified.

:option': matches any from a list of options. You specify this test with::

    option('option 1', 'option 2', 'option 3')

The following code will work without you having to specifically add the functions yourself.

.. code-block:: python

    from validate import Validator

    vtor = Validator()
newval1 = vtor.check('integer', value1)
newval2 = vtor.check('boolean', value2)
# etc ...

.. note::

   Of course, if these checks fail they raise exceptions. So you should wrap
   them in `try...except` blocks. Better still, use ConfigObj for a higher
   level interface.

Using Validator
================

Using `Validator` is very easy. It has one public attribute and one public
method.

Shown below are the different steps in using `Validator`.

The only additional thing you need to know, is about `Writing check
functions`.

Instantiate
----------

.. code-block:: python

   from validate import Validator
   vtor = Validator()

or even :

.. code-block:: python

   from validate import Validator
   
   #
   fdict = {
      'check_name1': function1,
      'check_name2': function2,
      'check_name3': function3,
   }
   #
   vtor = Validator(fdict)

The second method adds a set of your functions as soon as your validator is
created. They are stored in the `vtor.functions` dictionary. The 'key' you
give them in this dictionary is the name you use in your checks (not the
original function name).

Dictionary keys/functions you pass in can override the built-in ones if you want.

Adding functions
-----------------

The code shown above, for adding functions on instantiation, has exactly the same effect as the following code:

```python
from validate import Validator

#
vtor = Validator()
vtor.functions['check_name1'] = function1
vtor.functions['check_name2'] = function2
vtor.functions['check_name3'] = function3
```

``vtor.functions`` is just a dictionary that maps names to functions, so we could also have called ``vtor.functions.update(fdict)``.

Writing the check
-----------------

As we've heard, the checks map to the names in the ``functions`` dictionary. You've got a full list of `The standard functions` and the arguments they take.

If you're using ``Validator`` from ConfigObj, then your checks will look like:

```python
keyword = int_list(max=6)
```

but the check part will be identical.

The check method
-----------------

If you're not using ``Validator`` from ConfigObj, then you'll need to call the ``check`` method yourself.

If the check fails then it will raise an exception, so you'll want to trap that. Here's the basic example:
.. code-block:: python

    from validate import Validator, ValidateError
    
    vtor = Validator()
    check = "integer(0, 9)"
    value = 3
    try:
        newvalue = vtor.check(check, value)
    except ValidateError:
        print 'Check Failed.'
    else:
        print 'Check passed.'

.. caution::

    Although the value can be a string, if it represents a list it should already have been turned into a list of strings.

Default Values
~~~~~~~~~~~~~~

Some values may not be available, and you may want to be able to specify a default as part of the check.

You do this by passing the keyword `missing=True` to the `check` method, as well as a `default=value` in the check. (Constructing these checks is done automatically by ConfigObj: you only need to know about the `default=value` part):

.. code-block:: python

    check1 = 'integer(default=50)'
    check2 = 'option("val 1", "val 2", "val 3", default="val 1")'

    assert vtor.check(check1, '', missing=True) == 50
    assert vtor.check(check2, '', missing=True) == "val 1"

If you pass in `missing=True` to the check method, then the actual value is ignored. If no default is specified in the check, a `ValidateMissingValue` exception is raised. If a default is specified then that is passed to the check instead.

If the check has `default=None` (case sensitive) then `vtor.check` will *always* return `None` (the object). This makes it easy to tell your program
that this check contains no useful value when missing, i.e. the value is optional, and may be omitted without harm.

.. note::

As of version 0.3.0, if you specify ``default='None'`` (note the quote marks around ``None``) then it will be interpreted as the string ``'None'``.

List Values
~~~~~~~~~~~

It's possible that you would like your default value to be a list. It's even possible that you will write your own check functions - and would like to pass them keyword arguments as lists from within the check.

To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the ``default`` value.

This makes checks look something like:

```python
checkname(default=list('val1', 'val2', 'val3'))
```

get_default_value
-----------------

``Validator`` instances have a ``get_default_value`` method. It takes a ``check`` string (the same string you would pass to the ``check`` method) and returns the default value, converted to the right type. If the check doesn't define a default value then this method raises a ``KeyError``.

If the ``check`` has been seen before then it will have been parsed and cached already, so this method is not expensive to call (however the conversion is done each time).

Validator Exceptions
====================

.. note::

If you only use Validator through ConfigObj, it traps these Exceptions for you. You will still need to know about them for writing your own check functions.

``vtor.check`` indicates that the check has failed by raising an exception. The appropriate error should be raised in the check function.
The base error class is `ValidateError`. All errors (except for `VdtParamError`) raised are sub-classes of this.

If an unrecognised check is specified then `VdtUnknownCheckError` is raised.

There are also `VdtTypeError` and `VdtValueError`.

If incorrect parameters are passed to a check function then it will (or should) raise `VdtParamError`. As this indicates *programmer* error, rather than an error in the value, it is a subclass of `SyntaxError` instead of `ValidateError`.

.. note::

   This means it *won't* be caught by ConfigObj - but propagated instead.

If the value supplied is the wrong type, then the check should raise `VdtTypeError`. e.g. the check requires the value to be an integer (or representation of an integer) and something else was supplied.

If the value supplied is the right type, but an unacceptable value, then the check should raise `VdtValueError`. e.g. the check requires the value to be an integer (or representation of an integer) less than ten and a higher value was supplied.

Both `VdtTypeError` and `VdtValueError` are initialised with the incorrect value. In other words you raise them like this:

.. code-block:: python

   raise VdtTypeError(value)
   #
   raise VdtValueError(value)

`VdtValueError` has the following subclasses, which should be raised if they are more appropriate.

* `VdtValueTooSmallError`
* `VdtValueTooBigError`
* `VdtValueTooShortError`
* `VdtValueTooLongError`

Writing check functions

=====================
Writing check functions is easy.

The check function will receive the value as its first argument, followed by any other parameters and keyword arguments.

If the check fails, it should raise a `VdtTypeError` or a `VdtValueError` (or an appropriate subclass).

All parameters and keyword arguments are *always* passed as strings. (Parsed from the check string).

The value might be a string (or list of strings) and need converting to the right type - alternatively it might already be a list of integers. Our function needs to be able to handle either.

If the check passes then it should return the value (possibly converted to the right type).

And that's it!

Example
-------

Here is an example function that requires a list of integers. Each integer must be between 0 and 99.

It takes a single argument specifying the length of the list. (Which allows us to use the same check in more than one place). If the length can't be converted to an integer then we need to raise `VdtParamError`.

Next we check that the value is a list. Anything else should raise a `VdtTypeError`. The list should also have 'length' entries. If the list has more or less entries then we will need to raise a `VdtValueTooShortError` or a `VdtValueTooLongError`.

Then we need to check every entry in the list. Each entry should be an integer between 0 and 99, or a string representation of an integer between 0 and 99. Any other type is a `VdtTypeError`; any other value is a `VdtValueError` (either too big, or too small).

```python
.. code-block:: python

def special_list(value, length):
    """
    Check that the supplied value is a list of integers,
    with 'length' entries, and each entry between 0 and 99.
    """
# length is supplied as a string
# we need to convert it to an integer
try:
    length = int(length)
except ValueError:
    raise VdtParamError('length', length)
#
# Check the supplied value is a list
if not isinstance(value, list):
    raise VdtTypeError(value)
#
# check the length of the list is correct
if len(value) > length:
    raise VdtValueTooLongError(value)
elif len(value) < length:
    raise VdtValueTooShortError(value)
#
# Next, check every member in the list
# converting strings as necessary
out = []
for entry in value:
    if not isinstance(entry, (str, unicode, int)):
        # a value in the list
        # is neither an integer nor a string
        raise VdtTypeError(value)
    elif isinstance(entry, (str, unicode)):
        if not entry.isdigit():
            raise VdtTypeError(value)
    else:
        entry = int(entry)
    if entry < 0:
        raise VdtValueTooSmallError(value)
    elif entry > 99:
        raise VdtValueTooBigError(value)
    out.append(entry)
#
# if we got this far, all is well
# return the new list
return out

If you are only using validate from ConfigObj then the error type (*TooBig*, *TooSmall*, etc) is lost - so you may only want to raise `VdtValueError`.

.. caution::

If your function raises an exception that isn't a subclass of `ValidateError`, then ConfigObj won't trap it. This means validation will fail.
This is why our function starts by checking the type of the value. If we are passed the wrong type (e.g. an integer rather than a list) we get a ``VdtTypeError`` rather than bombing out when we try to iterate over the value.

If you are using validate in another circumstance you may want to create your own subclasses of ``ValidateError`` which convey more specific information.

Known Issues
=============

The following parses and then blows up. The resulting error message is confusing:

```
``checkname(default=list(1, 2, 3, 4))``
```

This is because it parses as: ``checkname(default="list(1", 2, 3, 4)``. That isn't actually unreasonable, but the error message won't help you work out what has happened.

TODO
=====

* A regex check function ?
* A timestamp check function ? (Using the ``parse`` function from ``DateUtil`` perhaps).

ISSUES
======

.. note::

Please file any bug reports to `Michael Foord`_ or the ConfigObj `Mailing List`_.

If we could pull tuples out of arguments, it would be easier to specify arguments for 'mixed_lists'.

CHANGELOG
==========

2009/10/25 - Version 1.0.1

--------------------------
* BUGFIX: Fixed compatibility with Python 2.3.

2009/04/13 - Version 1.0.0
--------------------------
* BUGFIX: can now handle multiline strings.
* Addition of 'force_list' validation option.

As the API is stable and there are no known bugs or outstanding feature requests I am marking this 1.0.

2008/02/24 - Version 0.3.2
--------------------------
BUGFIX: Handling of None as default value fixed.

2008/02/05 - Version 0.3.1
--------------------------
BUGFIX: Unicode checks no longer broken.

2008/02/05 - Version 0.3.0
--------------------------
Improved performance with a parse cache.

New `get_default_value` method. Given a check it returns the default value (converted to the correct type) or raises a `KeyError` if the check doesn't specify a default.

Added 'tuple' check and corresponding 'is_tuple' function (which always returns a tuple).

BUGFIX: A quoted 'None' as a default value is no longer treated as None, but as the string 'None'.

BUGFIX: We weren't unquoting keyword arguments of length two, so an empty string didn't work as a default.

BUGFIX: Strings no longer pass the 'is_list' check. Additionally, the list checks always return lists.

A couple of documentation bug fixes.

Removed CHANGELOG from module.
2007/02/04  Version 0.2.3
-------------------------------
Release of 0.2.3

2006/12/17  Version 0.2.3-alpha1
-------------------------------

By Nicola Larosa

Fixed validate doc to talk of `boolean` instead of `bool`; changed the
`is_bool` function to `is_boolean` (Sourceforge bug #1531525).

2006/04/29  Version 0.2.2
-------------------------------

Addressed bug where a string would pass the `is_list` test. (Thanks to
Konrad Wojas.)

2005/12/16  Version 0.2.1
-------------------------------

Fixed bug so we can handle keyword argument values with commas.

We now use a list constructor for passing list values to keyword arguments
(including `default`):

    default=list("val", "val", "val")

Added the `__test__` test.

Moved a function call outside a try...except block.

2005/08/18  Version 0.2.0
-------------------------------

Updated by `Michael Foord` and `Nicola Larosa`

Does type conversion as well.

2005/02/01  Version 0.1.0
-------------------------------
Initial version developed by `Michael Foord` and Mark Andrews.

Found in path(s):
* `/opt/cola/permits/1138400543_1614282087.64/0/configobj-4-7-2-ds-orig-1-tar-gz/configobj-4.7.2/docs/validate.txt`

No license file was found, but licenses were detected in source scan.

==================================
Reading and Writing Config Files
==================================

ConfigObj 4 Introduction and Reference

Authors: Michael Foord, Nicola Larosa
Version: ConfigObj 4.7.2
Date: 2010/02/27
Homepage: `ConfigObj Homepage`_
PyPI Entry: `ConfigObj on PyPI <http://pypi.python.org/pypi/configobj/>`_
Development: `Google Code Homepage`_
License: `BSD License`_
Support: `Mailing List`_

.. _Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop
.. _Google Code Homepage: http://code.google.com/p/configobj/

.. meta::
   :description: ConfigObj - a Python module for easy reading and writing of config files.
   :keywords: python, script, module, config, configuration, data, persistence, developer, configparser

.. contents:: ConfigObj Manual
   .. sectnum::

   .. note::

   The best introduction to working with ConfigObj, including the powerful configuration validation system, is the article:

   * `An Introduction to ConfigObj <http://www.voidspace.org.uk/python/articles/configobj.shtml>`_

Introduction

==========
**ConfigObj** is a simple but powerful config file reader and writer: an *ini file round tripper*. Its main feature is that it is very easy to use, with a straightforward programmer's interface and a simple syntax for config files. It has lots of other features though:

* Nested sections (subsections), to any level
* List values
* Multiple line values
* String interpolation (substitution)
* Integrated with a powerful validation system

- including automatic type checking/conversion
- repeated sections
- and allowing default values

* When writing out config files, ConfigObj preserves all comments and the order of members and sections
* Many useful methods and options for working with configuration files (like the 'reload' method)
* Full Unicode support

For support and bug reports please use the ConfigObj `Mailing List`_ or the issue tracker on the `Google Code Homepage`_.

---

**Downloading**

The current version is **4.7.2**, dated 27th February 2010. ConfigObj 4 is stable and mature. We still expect to pick up a few bugs along the way though [#]_.

You can get ConfigObj in the following ways:

* configobj.py_ from Voidspace

  ConfigObj has no external dependencies. This file is sufficient to access all the functionality except Validation_.

* configobj.zip_ from Voidspace

  This also contains validate.py_ and `this document`_.

* validate.py_ from Voidspace

---

ConfigObj has a source distribution `on PyPI <http://pypi.python.org/pypi/configobj>`_. If you unzip
the archive you can install it with::

setup.py install

Alternatively, you can install with easy install or pip::

easy_install configobj

Documentation
-------------

*configobj.zip* also contains `this document`_.

* You can view `this document`_ online at the `ConfigObj Homepage`_.

Development Version
---------------------

It is sometimes possible to get the latest *development version* of ConfigObj from the Subversion Repository maintained on the `Google Code Homepage`_.

.. _configobj.py: http://www.voidspace.org.uk/downloads/configobj.py
.. _configobj.zip: http://www.voidspace.org.uk/downloads/configobj-4.7.2.zip
.. _validate.py: http://www.voidspace.org.uk/downloads/validate.py
.. _this document:
.. _configobj homepage: http://www.voidspace.org.uk/python/configobj.html

ConfigObj in the Real World
===========================

**ConfigObj** is widely used. Projects using it include:

* `Bazaar <http://bazaar-ng.org>`_.

  Bazaar is a Python distributed [acro;VCS;Version Control System]. ConfigObj is used to read `bazaar.conf` and `branches.conf`.

* `Chandler <http://chandler.osafoundation.org>`_.

  A Python and `wxPython <http://www.wxpython.org>`_.
  Personal Information Manager, being developed by the `OSAFoundation <http://www.osafoundation.org>`_.

* `matplotlib <http://matplotlib.sourceforge.net>`_.

  An object-oriented, publication-quality plotting library for Python.
A 2D plotting library.

* `IPython <http://ipython.scipy.org/moin/>`_

IPython is an enhanced interactive Python shell. IPython uses ConfigObj in a module called 'TConfig' that combines it with enthought `Traits <http://code.enthought.com/traits/>`_
<http://ipython.scipy.org/ipython/ipython/browser/ipython/branches/saw/sandbox/tconfig>`_

* `Elisa - the Fluendo Mediacenter <http://elisa.fluendo.com/>`_

Elisa is an open source cross-platform media center solution designed to be simple for people not particularly familiar with computers.

Getting Started
===============

The outstanding feature of using ConfigObj is simplicity. Most functions can be performed with single line commands.

Reading a Config File
---------------------

The normal way to read a config file, is to give ConfigObj the filename :

.. code-block:: python

    from configobj import ConfigObj
    config = ConfigObj(filename)

You can also pass the config file in as a list of lines, or a ``StringIO`` instance, so it doesn't matter where your config data comes from.

You can then access members of your config file as a dictionary. Subsections will also be dictionaries.

.. code-block:: python

    from configobj import ConfigObj
    config = ConfigObj(filename)
    
    #
    value1 = config['keyword1']
    value2 = config['keyword2']
    
    #
    section1 = config['section1']
    value3 = section1['keyword3']
Writing a Config File

Creating a new config file is just as easy as reading one. You can specify a filename when you create the ConfigObj, or do it later [#].

If you *don't* set a filename, then the ``write`` method will return a list of lines instead of writing to file. See the write_ method for more details.

Here we show creating an empty ConfigObj, setting a filename and some values, and then writing to file:

```python
from configobj import ConfigObj
config = ConfigObj()
config.filename = filename
#
config['keyword1'] = value1
config['keyword2'] = value2
#
config['section1'] = {}
config['section1']['keyword3'] = value3
config['section1']['keyword4'] = value4
#
section2 = {
    'keyword5': value5,
    'keyword6': value6,
    'sub-section': {
        'keyword7': value7
    }
}
config['section2'] = section2
#
config['section3'] = {}
config['section3']['keyword 8'] = [value8, value9, value10]
config['section3']['keyword 9'] = [value11, value12, value13]
#
config.write()
.. caution::

    Keywords and section names can only be strings [#]_. Attempting to set anything else will raise a `ValueError`.

    See `String Interpolation and List Values`_ for an important note on using lists in combination with `String Interpolation`_.

Config Files
------------

The config files that ConfigObj will read and write are based on the 'INI' format. This means it will read and write files created for `ConfigParser`[#]_.

Keywords and values are separated by an `=``, and section markers are between square brackets. Keywords, values, and section names can be surrounded by single or double quotes. Indentation is not significant, but can be preserved.

Subsections are indicated by repeating the square brackets in the section marker. You nest levels by using more brackets.

You can have list values by separating items with a comma, and values spanning multiple lines by using triple quotes (single or double).

For full details on all these see `the config file format`_. Here's an example to illustrate::

    # This is the 'initial_comment'
    # Which may be several lines
    keyword1 = value1
    'keyword 2' = 'value 2'

    [ "section 1" ]
    # This comment goes with keyword 3
    keyword 3 = value 3
    'keyword 4' = value 4, value 5, 'value 6'

    [[ sub-section ]]  # an inline comment
    # sub-section is inside "section 1"
    'keyword 5' = 'value 7'
    'keyword 6' = "A multiline value, that spans more than one line :-)"
    The line breaks are included in the value."
ConfigObj specifications
========================

.. code-block:: python

    config = ConfigObj(infile=None, options=None, configspec=None, encoding=None,
                       interpolation=True, raise_errors=False, list_values=True,
                       create_empty=False, file_error=False, stringify=True,
                       indent_type=None, default_encoding=None, unrepr=False,
                       write_empty_values=False, _inspec=False)

Many of the keyword arguments are available as attributes after the config file has been parsed.

.. note::

    New in ConfigObj 4.7.0: Instantiating ConfigObj with
    an `options` dictionary is now deprecated. To modify code that used to
do this simply unpack the dictionary in the constructor call:

    .. code-block:: python

        config = ConfigObj(filename, **options)

ConfigObj takes the following arguments (with the default values shown) :

* **infile:** `None`

You don't need to specify an infile. If you omit it, an empty ConfigObj will be
created. `infile` *can* be :

* Nothing. In which case the `filename` attribute of your ConfigObj will be
  `None`. You can set a filename at any time.

* A filename. What happens if the file doesn't already exist is determined by
  the options `file_error` and `create_empty`. The filename will be
preserved as the "filename" attribute. This can be changed at any time.

* A list of lines. Any trailing newlines will be removed from the lines. The "filename" attribute of your ConfigObj will be "None".

* A "StringIO" instance or file object, or any object with a "read" method. The "filename" attribute of your ConfigObj will be "None".[#].

* A dictionary. You can initialise a ConfigObj from a dictionary.[#]. The "filename" attribute of your ConfigObj will be "None". All keys must be strings. In this case, the order of values and sections is arbitrary.

* 'raise_errors': "False"

When parsing, it is possible that the config file will be badly formed. The default is to parse the whole file and raise a single error at the end. You can set 'raise_errors = True' to have errors raised immediately. See the exceptions section for more details.

Altering this value after initial parsing has no effect.

* 'list_values': "True"

If "True" (the default) then list values are possible. If "False", the values are not parsed for lists.

If "list_values = False" then single line values are not quoted or unquoted when reading and writing.

Changing this value affects whether single line values will be quoted or not when writing.

* 'create_empty': "False"

If this value is "True" and the file specified by "infile" doesn't exist, ConfigObj will create an empty file. This can be a useful test that the filename makes sense: an impossible filename will cause an error.

Altering this value after initial parsing has no effect.

* 'file_error': "False"

If this value is "True" and the file specified by "infile" doesn't exist, ConfigObj will raise an "IOError".

Altering this value after initial parsing has no effect.

* 'interpolation': "True"
Whether string interpolation is switched on or not. It is on (``True``) by default.

You can set this attribute to change whether string interpolation is done when values are fetched. See the `String Interpolation` section for more details.

New in ConfigObj 4.7.0: Interpolation will also be done in list values.

* 'configspec': ``None``

If you want to use the validation system, you supply a configspec. This is effectively a type of config file that specifies a check for each member. This check can be used to do type conversion as well as check that the value is within your required parameters.

You provide a configspec in the same way as you do the initial file: a filename, or list of lines, etc. See the validation_ section for full details on how to use the system.

When parsed, every section has a `configspec` with a dictionary of configspec checks for *that section*.

* 'stringify': ``True``

If you use the validation scheme, it can do type checking *and* conversion for you. This means you may want to set members to integers, or other non-string values.

If `stringify` is set to `True` (default) then non-string values will be converted to strings when you write the config file. The validation_ process converts values from strings to the required type.

If `stringify` is set to `False`, attempting to set a member to a non-string value [#]_ will raise a `TypeError` (no type conversion is done by validation).

* 'indent_type': ```    ```

Indentation is not significant; it can however be present in the input and output config. Any combination of tabs and spaces may be used; the string will be repeated for each level of indentation. Typical values are: ```    ``` (no indentation), ```    ``` (indentation with four spaces, the default), ```    ``` (indentation with one tab).

If this option is not specified, and the ConfigObj is initialised with a dictionary, the indentation used in the output is the default one, that is, four spaces.
If this option is not specified, and the ConfigObj is initialised with a list of lines or a file, the indentation used in the first indented line is selected and used in all output lines. If no input line is indented, no output line will be either.

If this option *is* specified, the option value is used in the output config, overriding the type of indentation in the input config (if any).

* 'encoding': `None`

By default **ConfigObj** does not decode the file/strings you pass it into Unicode [#]. If you want your config file as Unicode (keys and members) you need to provide an encoding to decode the file with. This encoding will also be used to encode the config file when writing.

You can change the encoding attribute at any time.

Any characters in your strings that can't be encoded with the specified encoding will raise a `UnicodeEncodeError`.

.. note::

   ``UTF16`` encoded files will automatically be detected and decoded, even if ``encoding`` is `None``.

   This is because it is a 16-bit encoding, and ConfigObj will mangle it (split characters on byte boundaries) if it parses it without decoding.

* 'default_encoding': `None`

When using the `write` method, **ConfigObj** uses the `encoding` attribute to encode the Unicode strings. If any members (or keys) have been set as byte strings instead of Unicode, these must first be decoded to Unicode before outputting in the specified encoding.

``default_encoding``, if specified, is the encoding used to decode byte strings in the **ConfigObj** before writing. If this is `None`, then the Python default encoding (`sys.defaultencoding` - usually ASCII) is used.

For most Western European users, a value of `latin-1` is sensible.

``default_encoding`` is *only* used if an `encoding` is specified.

Any characters in byte-strings that can't be decoded using the `default_encoding` will raise a `UnicodeDecodeError`. 
* `unrepr`: `"False"

The `unrepr` option reads and writes files in a different mode. This allows you to store and retrieve the basic Python data-types using config files.

This uses Python syntax for lists and quoting. See `unrepr mode` for the full details.

* `write_empty_values`: `"False"

If `write_empty_values` is `"True"`, empty strings are written as empty values. See `Empty Values` for more details.

* `_inspec`: `"False"

Used internally by ConfigObj when parsing configspec files. If you are creating a ConfigObj instance from a configspec file you must pass True for this argument as well as `list_values=False`.

Methods
-------

The ConfigObj is a subclass of an object called `Section`, which is itself a subclass of `dict`, the builtin dictionary type. This means it also has **all** the normal dictionary methods.

In addition, the following `Section Methods` may be useful:

* `restore_default`
* `restore_defaults`
* `walk`
* `merge`
* `dict`
* `as_bool`
* `as_float`
* `as_int`
* `as_list`

Read about Sections for details of all the methods.

.. hint::

The `merge` method of sections is a recursive update.

You can use this to merge sections, or even whole ConfigObjs, into each other.
You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default. You can use configs and validation to achieve the same thing of course.

The public methods available on ConfigObj are:

* `write`
* `validate`
* `reset`
* `reload`

`write`

```python
write(file_object=None)
```

This method writes the current ConfigObj and takes a single, optional argument `[#]_`.

If you pass in a file like object to the `write` method, the config file will be written to this. (The only method of this object that is used is its `write` method, so a `StringIO` instance, or any other file like object will work.)

Otherwise, the behaviour of this method depends on the `filename` attribute of the ConfigObj.

```
filename``

ConfigObj will write the configuration to the file specified.

``None``

`write` returns a list of lines. (Not `\n` terminated)

First the `initial_comment` is written, then the config file, followed by the `final_comment`. Comment lines and inline comments are written with each key/value.

`validate`
.. code-block:: python

    validate(validator, preserve_errors=False, copy=False)

.. code-block:: python

    # filename is the config file
    # filename2 is the configspec
    # (which could also be hardcoded into your program)
    config = ConfigObj(filename, configspec=filename2)
    # from validate import Validator
    val = Validator()
    test = config.validate(val)
    if test == True:
        print 'Succeeded.'

The validate method uses the `validate` module to do the validation.

This method validates the ConfigObj against the configspec. By doing type conversion as well it can abstract away the config file altogether and present the config *data* to your application (in the types it expects it to be).

If the ``configspec`` attribute of the ConfigObj is ``None``, it raises a `ValueError`.

If the stringify_ attribute is set, this process will convert values to the type defined in the configspec.

The validate method uses checks specified in the configspec and defined in the``Validator`` object. It is very easy to extend.

The configspec looks like the config file, but instead of the value, you specify the check (and any default value). See the validation_ section for details.

.. hint::

    The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best guide to them is this article on ConfigObj:

    * `An Introduction to ConfigObj`_

    The `copy` parameter fills in missing values from the configspec (default values), *without* marking the values as defaults. It also causes comments to
be copied from the configspec into the config file. This allows you to use a
cfgspec to create default config files. (Normally default values aren’t
written out by the `write` method.)

As of ConfigObj 4.3.0 you can also pass in a ConfigObj instance as your
cfgspec. This is especially useful if you need to specify the encoding of
your configsfile. When you read your cfgspec file, you *must* specify
`list_values=False` . If you need to support hashes inside the configspec
values then you must also pass in `_inspec=True` . This is because cfgspec
files actually use a different syntax to config files and inline comment support
must be switched off to correctly read cfgspec files with hashes in the values.

.. code-block:: python

    from configobj import ConfigObj
    configspec = ConfigObj(configspecfilename, encoding='UTF8',
                           list_values=False, _inspec=True)
    config = ConfigObj(filename, configspec=configspec)

Return Value
############

By default, the validate method either returns `True` (everything passed)
or a dictionary of `True` / `False` representing pass/fail. The dictionary
follows the structure of the ConfigObj.

If a whole section passes then it is replaced with the value `True` . If a
whole section fails, then it is replaced with the value `False` .

If a value is missing, and there is no default in the check, then the check
automatically fails.

The `validate` method takes an optional keyword argument `preserve_errors` .
If you set this to `True` , instead of getting `False` for failed checks you
get the actual error object from the `validate` module. This usually contains
useful information about why the check failed.

See the `flatten_errors` function for how to turn your results dictionary into
a useful list of error messages.

Even if `preserve_errors` is `True` , missing keys or sections will still be
represented by a `False` in the results dictionary.

Mentioning Default Values
#########################
In the check in your configspec, you can specify a default to be used - by using the `default` keyword. E.g. ::

    key1 = integer(0, 30, default=15)
    key2 = integer(default=15)
    key3 = boolean(default=True)
    key4 = option('Hello', 'Goodbye', 'Not Today', default='Not Today')

If the configspec check supplies a default and the value is missing in the config, then the default will be set in your ConfigObj. (It is still passed to the `Validator` so that type conversion can be done: this means the default value must still pass the check.)

ConfigObj keeps a record of which values come from defaults, using the `defaults` attribute of sections_. Any key in this list isn't written out by the `write` method. If a key is set from outside (even to the same value) then it is removed from the `defaults` list.

.. note::

    Even if all the keys in a section are in the defaults list, the section marker is still written out.

There is additionally a special case default value of `None`. If you set the default value to `None` and the value is missing, the value will always be set to `None`. As the other checks don't return `None` (unless you implement your own that do), you can tell that this value came from a default value (and was missing from the config file). It allows an easy way of implementing optional values. Simply check (and ignore) members that are set to `None`.

.. note::

    If `stringify_` is `False` then `default=None` returns `'None'` instead of `None`. This is because setting a value to a non-string raises an error if `stringify` is unset.

The default value can be a list. See `List Values` for the way to do this.

Writing invalid default values is a *guaranteed* way of confusing your users. Default values **must** pass the check.

Mentioning Repeated Sections and Values

****************************************************

In the configspec it is possible to cause *every* sub-section in a section to
be validated using the same configspec. You do this with a section in the configspec called `__many__`. Every sub-section in that section has the `__many__` configspec applied to it (without you having to explicitly name them in advance).

Your `__many__` section can have nested subsections, which can also include `__many__` type sections.

You can also specify that all values should be validated using the same configspec, by having a member with the name `__many__`. If you want to use repeated values along with repeated sections then you can call one of them `___many___` (triple underscores).

Sections with repeated sections or values can also have specifically named sub-sections or values. The `__many__` configspec will only be used to validate entries that don't have an explicit configspec.

See `Repeated Sections` for examples.

Mentioning SimpleVal

```
# SimpleVal
```

If you just want to check if all members are present, then you can use the `SimpleVal` object that comes with ConfigObj. It only fails members if they are missing.

Write a configspec that has all the members you want to check for, but set every section to `''`.

```
.. code-block:: python

    val = SimpleVal()
    test = config.validate(val)
    if test is True:
        print 'Succeeded.'
```

Mentioning copy Mode

```
```

As discussed in `Mentioning Default Values`, you can use a configspec to supply default values. These are marked in the ConfigObj instance as defaults, and *not* written out by the `write` mode. This means that your users only need to supply values that are different from the defaults.

This can be inconvenient if you *do* want to write out the default values, for example to write out a default config file.
If you set `copy=True` when you call validate, then no values are marked as defaults. In addition, all comments from the configspec are copied into your ConfigObj instance. You can then call `write` to create your config file.

There is a limitation with this. In order to allow `String Interpolation` to work within configspecs, `DEFAULT` sections are not processed by validation; even in copy mode.

**reload**

If a ConfigObj instance was loaded from the filesystem, then this method will reload it. It will also reuse any configspec you supplied at instantiation (including reloading it from the filesystem if you passed it in as a filename).

If the ConfigObj does not have a filename attribute pointing to a file, then a `ReloadError` will be raised.

**reset**

This method takes no arguments and doesn't return anything. It restores a ConfigObj instance to a freshly created state.

**Attributes**

* indent_type
* interpolation
* stringify
* BOM
* initial_comment
* final_comment
* list_values
* encoding
* default_encoding
* unrepr
* write_empty_values
* newlines

.. note::
This doesn't include *comments*, *inline_comments*, *defaults*, or *configspec*. These are actually attributes of Sections_.

It also has the following attributes as a result of parsing. They correspond to options when the ConfigObj was created, but changing them has no effect.

* raise_errors
* create_empty
* file_error

interpolation

~~~~~~~~~~~~

ConfigObj can perform string interpolation in a *similar* way to `ConfigParser`. See the `String Interpolation` section for full details.

If `interpolation` is set to `False`, then interpolation is *not* done when you fetch values.

stringify

~~~~~~~~

If this attribute is set (`True`) then the validate_ method changes the values in the ConfigObj. These are turned back into strings when write_ is called.

If stringify is unset (`False`) then attempting to set a value to a non string (or a list of strings) will raise a `TypeError`.

BOM

~~~

If the initial config file *started* with the UTF8 Unicode signature (known slightly incorrectly as the BOM - Byte Order Mark), or the UTF16 BOM, then this attribute is set to `True`. Otherwise it is `False`.

If it is set to `True` when `write` is called then, if `encoding` is set to `None` or to `utf_8` (and variants) a UTF BOM will be written.

For UTF16 encodings, a BOM is *always* written.

initial_comment

~~~~~~~~~~~~~~~
This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments before the start of the members.

If you create a new ConfigObj, this will be an empty list.

The write method puts these lines before it starts writing out the members.

```
final_comment
```

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments after the last member.

If you create a new ConfigObj, this will be an empty list.

The ``write`` method puts these lines after it finishes writing out the members.

```
list_values
```

This attribute is ``True`` or ``False``. If set to ``False`` then values are not parsed for list values. In addition single line values are not unquoted.

This allows you to do your own parsing of values. It exists primarily to support the reading of configspec but has other use cases.

For example you could use the ``LineParser`` from the `listquote module <http://www.voidspace.org.uk/python/listquote.html#lineparser>`_ to read values for nested lists.

Single line values aren't quoted when writing - but multiline values are handled as normal.

.. caution::

    Because values aren't quoted, leading or trailing whitespace can be lost. This behaviour was changed in version 4.0.1. Prior to this, single line values might have been quoted; even with ``list_values=False``. This means that files written by earlier versions of ConfigObj *could* now be incompatible and need the quotes removing by hand.

```
encoding
```

This is the encoding used to encode the output, when you call ``write``. It
must be a valid encoding `recognised by Python <http://docs.python.org/lib/standard-encodings.html>`_.

If this value is `None` then no encoding is done when `write` is called.

```
default_encoding
```

If encoding is set, any byte-strings in your ConfigObj instance (keys or members) will first be decoded to Unicode using the encoding specified by the `default_encoding` attribute. This ensures that the output is in the encoding specified.

If this value is `None` then `sys.defaultencoding` is used instead.

```
unrepr
```

Another boolean value. If this is set, then `repr(value)` is used to write values. This writes values in a slightly different way to the normal ConfigObj file syntax.

This preserves basic Python data-types when read back in. See `unrepr mode` for more details.

```
write_empty_values
```

Also boolean. If set, values that are an empty string (`''`) are written as empty values. See `Empty Values` for more details.

```
newlines
```

When a config file is read, ConfigObj records the type of newline separators in the file and uses this separator when writing. It defaults to `None`, and ConfigObj uses the system default (`os.sep`) if write is called without newlines having been set.

The Config File Format

```
You saw an example config file in the `Config Files` section. Here is a fuller specification of the config files used and created by ConfigObj.
```
The basic pattern for keywords is::

    # comment line
    # comment line
    keyword = value # inline comment

Both keyword and value can optionally be surrounded in quotes. The equals sign
is the only valid divider.

Values can have comments on the lines above them, and an inline comment after
them. This, of course, is optional. See the comments_ section for details.

If a keyword or value starts or ends with whitespace, or contains a quote mark
or comma, then it should be surrounded by quotes. Quotes are not necessary if
whitespace is surrounded by non-whitespace.

Values can also be lists. Lists are comma separated. You indicate a single
member list by a trailing comma. An empty list is shown by a single comma::

    keyword1 = value1, value2, value3
    keyword2 = value1, # a single member list
    keyword3 = , # an empty list

Values that contain line breaks (multi-line values) can be surrounded by triple
quotes. These can also be used if a value contains both types of quotes. List
members cannot be surrounded by triple quotes::

    keyword1 = ''' A multi line value
        on several
        lines'''    # with a comment
    keyword2 = '''I won't be "afraid".'''
    #
    keyword3 = """ A multi line value
        on several
        lines"""    # with a comment
    keyword4 = """I won't be "afraid"."""

.. warning::

    There is no way of safely quoting values that contain both types of triple
    quotes.

A line that starts with a '#', possibly preceded by whitespace, is a comment.

New sections are indicated by a section marker line. That is the section name
in square brackets. Whitespace around the section name is ignored. The name can
be quoted with single or double quotes. The marker can have comments before it
and an inline comment after it::

```
# The First Section
[ section name 1 ] # first section
keyword1 = value1

# The Second Section
[ "section name 2" ] # second section
keyword2 = value2
```

Any subsections (sections that are *inside* the current section) are designated by repeating the square brackets before and after the section name. The number of square brackets represents the nesting level of the sub-section. Square brackets may be separated by whitespace; such whitespace, however, will not be present in the output config written by the ``write`` method.

Indentation is not significant, but can be preserved. See the description of the ``indent_type`` option, in the `ConfigObj specifications` chapter, for the details.

A *NestingError* will be raised if the number of the opening and the closing brackets in a section marker is not the same, or if a sub-section's nesting level is greater than the nesting level of it parent plus one.

In the outer section, single values can only appear before any sub-section. Otherwise they will belong to the sub-section immediately before them::

```
# initial comment
keyword1 = value1
keyword2 = value2

[section 1]
keyword1 = value1
keyword2 = value2

[[sub-section]]
# this is in section 1
keyword1 = value1
keyword2 = value2

[[nested section]]
# this is in sub section
keyword1 = value1
keyword2 = value2

[[sub-section2]]
# this is in section 1 again
keyword1 = value1
```
keyword2 = value2

[[sub-section3]]
# this is also in section 1, indentation is misleading here
keyword1 = value1
keyword2 = value2

# final comment

When parsed, the above config file produces the following data structure:

```python
ConfigObj({
    'keyword1': 'value1',
    'keyword2': 'value2',
    'section 1': {
        'keyword1': 'value1',
        'keyword2': 'value2',
        'sub-section': {
            'keyword1': 'value1',
            'keyword2': 'value2',
            'nested section': {
                'keyword1': 'value1',
                'keyword2': 'value2',
            },
        },
        'sub-section2': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
        'sub-section3': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
    },
})
```

Sections are ordered: note how the structure of the resulting ConfigObj is in the same order as the original file.

.. note::

In ConfigObj 4.3.0 *empty values* became valid syntax. They are read as the empty string. There is also an option/attribute (``write_empty_values``) to allow the writing of these.
This is mainly to support 'legacy' config files, written from other applications. This is documented under 'Empty Values'.

`unrepr mode` introduces *another* syntax variation, used for storing basic Python datatypes in config files.

Sections
========

Every section in a ConfigObj has certain properties. The ConfigObj itself also has these properties, because it too is a section (sometimes called the *root section*).

``Section`` is a subclass of the standard new-class dictionary, therefore it has **all** the methods of a normal dictionary. This means you can `update` and `clear` sections.

.. note::

You create a new section by assigning a member to be a dictionary.

The new `Section` is created *from* the dictionary, but isn't the same thing as the dictionary. (So references to the dictionary you use to create the section *aren't* references to the new section).

Note the following.

.. code-block:: python

    config = ConfigObj()
    vals = {'key1': 'value 1',
            'key2': 'value 2'}
    config['vals'] = vals
    config['vals'] == vals
    True
    config['vals'] is vals
    False

If you now change `vals`, the changes won't be reflected in `config['vals']`.

A section is ordered, following its `scalars` and `sections` attributes documented below. This means that the following dictionary attributes return their results in order.

* `__iter__`
More commonly known as `for member in section:`.

* `__repr__` and `__str__`

Any time you print or display the ConfigObj.

* `items`

* `iteritems`

* `iterkeys`

* `itervalues`

* `keys`

* `popitem`

* `values`

Section Attributes
-------------------

* `main`

A reference to the main ConfigObj.

* `parent`

A reference to the 'parent' section, the section that this section is a member of.

On the ConfigObj this attribute is a reference to itself. You can use this to walk up the sections, stopping when `section.parent is section`.

* `depth`

The nesting level of the current section.

If you create a new ConfigObj and add sections, 1 will be added to the depth level between sections.

* `defaults`

This attribute is a list of scalars that came from default values. Values that came from defaults aren't written out by the `write` method.
Setting any of these values in the section removes them from the defaults list.

* default_values

This attribute is a dictionary mapping keys to the default values for the keys. By default it is an empty dictionary and is populated when you validate the ConfigObj.

* scalars, sections

These attributes are normal lists, representing the order that members, single values and subsections appear in the section. The order will either be the order of the original config file, *or* the order that you added members.

The order of members in this lists is the order that `write` creates in the config file. The `scalars` list is output before the `sections` list.

Adding or removing members also alters these lists. You can manipulate the lists directly to alter the order of members.

.. warning::

   If you alter the `scalars`, `sections`, or `defaults` attributes so that they no longer reflect the contents of the section, you will break your ConfigObj.

See also the `rename` method.

* comments

This is a dictionary of comments associated with each member. Each entry is a list of lines. These lines are written out before the member.

* inline_comments

This is *another* dictionary of comments associated with each member. Each entry is a string that is put inline with the member.

* configspec

The configspec attribute is a dictionary mapping scalars to *checks*. A check defines the expected type and possibly the allowed values for a member.

The configspec has the same format as a config file, but instead of values
it has a specification for the value (which may include a default value). The validate_ method uses it to check the config file makes sense. If a configspec is passed in when the ConfigObj is created, then it is parsed and broken up to become the `"configspec` attribute of each section.

If you didn't pass in a configspec, this attribute will be `"None` on the root section (the main ConfigObj).

You can set the configspec attribute directly on a section.

See the validation_ section for full details of how to write configspecs.

**extra_values**

By default an empty list. After validation_ this is populated with any members of the section that don't appear in the configspec (i.e. they are additional values). Rather than accessing this directly it may be more convenient to get all the extra values in a config file using the get_extra_values_ function.

New in ConfigObj 4.7.0.

**Section Methods**

**dict**

This method takes no arguments. It returns a deep copy of the section as a dictionary. All subsections will also be dictionaries, and list values will be copies, rather than references to the original [#].

**rename**

`"rename(oldkey, newkey)`

This method renames a key, without affecting its position in the sequence.

**merge**

`"merge(indict)`

This method is a *recursive update* method. It allows you to merge two config files together.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default.
For example:

```python
# def_cfg contains your default config settings
# user_cfg contains the user settings
cfg = ConfigObj(def_cfg)
usr = ConfigObj(user_cfg)
#
cfg.merge(usr)
```

```
cfg now contains a combination of the default settings and the user settings.

The user settings will have overwritten any of the default ones.
```

**walk**

This method can be used to transform values and names. See `walking a section` for examples and explanation.

**as_bool**

```
as_bool(key)
```

Returns `True` if the key contains a string that represents `True`, or is the `True` object.

Returns `False` if the key contains a string that represents `False`, or is the `False` object.

Raises a `ValueError` if the key contains anything else.

Strings that represent `True` are (not case sensitive):

`true, yes, on, 1`

Strings that represent `False` are:

`false, no, off, 0`

**as_int**

```
as_int(key)
```
This returns the value contained in the specified key as an integer.

It raises a `ValueError` if the conversion can’t be done.

```
* **as_float**
```
```
`as_float(key)`
```

This returns the value contained in the specified key as a float.

It raises a `ValueError` if the conversion can’t be done.

```
* **as_list**
```
```
`as_list(key)`
```

This returns the value contained in the specified key as a list.

If it isn’t a list it will be wrapped as a list so that you can
guarantee the returned value will be a list.

```
* **restore_default**
```
```
`restore_default(key)`
```

Restore (and return) the default value for the specified key.

This method will only work for a ConfigObj that was created
with a configspec and has been validated.

If there is no default value for this key, `KeyError` is raised.

```
* **restore_defaults**
```
```
`restore_defaults()`
```

Recursively restore default values to all members
that have them.

This method will only work for a ConfigObj that was created
with a configspec and has been validated.

It doesn’t delete or modify entries without default values.
Walking a Section

.. note::

The walk method allows you to call a function on every member/name.

.. code-block:: python

    walk(function, raise_errors=True,
         call_on_sections=False, **kwargs)

``walk`` is a method of the ``Section`` object. This means it is also a method of ConfigObj.

It walks through every member and calls a function on the keyword and value. It walks recursively through subsections.

It returns a dictionary of all the computed values.

If the function raises an exception, the default is to propagate the error, and stop. If ``raise_errors=False`` then it sets the return value for that keyword to ``False`` instead, and continues. This is similar to the way validation works.

Your function receives the arguments ``(section, key)``. The current value is then ``section[key]``. Any unrecognised keyword arguments you pass to walk, are passed on to the function.

 Normally ``walk`` just recurses into subsections. If you are transforming (or checking) names as well as values, then you want to be able to change the names of sections. In this case set ``call_on_sections`` to ``True``. Now, on encountering a sub-section, *first* the function is called for the *whole* sub-section, and *then* it recurses into it's members. This means your function must be able to handle receiving dictionaries as well as strings and lists.

If you are using the return value from ``walk`` *and* ``call_on_sections``, note that walk discards the return value when it calls your function.

.. caution::

You can use ``walk`` to transform the names of members of a section but you mustn't add or delete members.

Examples

-------
You can use this for transforming all values in your ConfigObj. For example you might like the nested lists from ConfigObj 3. This was provided by the listquote_ module. You could switch off the parsing for list values (`list_values=False`) and use listquote to parse every value.

Another thing you might want to do is use the Python escape codes in your values. You might be *used* to using `\n` for line feed and `\t` for tab. Obviously we'd need to decode strings that come from the config file (using the escape codes). Before writing out we'll need to put the escape codes back in encode.

As an example we'll write a function to use with walk, that encodes or decodes values using the `string-escape` codec.

The function has to take each value and set the new value. As a bonus we'll create one function that will do decode *or* encode depending on a keyword argument.

We don't want to work with section names, we're only transforming values, so we can leave `call_on_sections` as `False`. This means the two datatypes we have to handle are strings and lists, we can ignore everything else. (We'll treat tuples as lists as well).

We're not using the return values, so it doesn't need to return anything, just change the values if appropriate.

```python
def string_escape(section, key, encode=False):
    
    A function to encode or decode using the 'string-escape' codec.
    To be passed to the walk method of a ConfigObj.
    By default it decodes.
    To encode, pass in the keyword argument ``encode=True``.
    
    val = section[key]
    # is it a type we can work with
    # NOTE: for platforms where Python > 2.2
    # you can use basestring instead of (str, unicode)
    if not isinstance(val, (str, unicode, list, tuple)):
        # no !
        return
    elif isinstance(val, (str, unicode)):
        # it's a string !
        if not encode:
            section[key] = val.decode('string-escape')
        # encode
```
else:
    section[key] = val.encode('string-escape')
else:
    # it must be a list or tuple!
    # we'll be lazy and create a new list
    newval = []
    # we'll check every member of the list
    for entry in val:
        if isinstance(entry, (str, unicode)):
            if not encode:
                newval.append(entry.decode('string-escape'))
            else:
                newval.append(entry.encode('string-escape'))
        else:
            newval.append(entry)
    # done!
    section[key] = newval

# assume we have a ConfigObj called ``config``
#
# To decode
config.walk(string_escape)
#
# To encode.
# Because ``walk`` doesn't recognise the ``encode`` argument
# it passes it to our function.
config.walk(string_escape, encode=True)

Here's a simple example of using ``walk`` to transform names and values. One
usecase of this would be to create a *standard* config file with placeholders
for section and keynames. You can then use walk to create new config files
and change values and member names:

```
# We use 'XXXX' as a placeholder
config = ''
XXXXkey1 = XXXXvalue1
XXXXkey2 = XXXXvalue2
XXXXkey3 = XXXXvalue3
[XXXXsection1]
XXXXkey1 = XXXXvalue1
XXXXkey2 = XXXXvalue2
XXXXkey3 = XXXXvalue3
[XXXXsection2]
XXXXkey1 = XXXXvalue1
XXXXkey2 = XXXXvalue2
```
XXXXkey3 = XXXXvalue3

[[XXXXsection1]]
XXXXkey1 = XXXXvalue1
XXXXkey2 = XXXXvalue2
XXXXkey3 = XXXXvalue3

".splitlines()
cfg = ConfigObj(config)
#
def transform(section, key):
    val = section[key]
    newkey = key.replace('XXXX', 'CLIENT1')
    section.rename(key, newkey)
    if isinstance(val, (tuple, list, dict)):
        pass
    else:
        val = val.replace('XXXX', 'CLIENT1')
        section[newkey] = val
#
cfg.walk(transform, call_on_sections=True)
print cfg
ConfigObj({'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2',
    'CLIENT1key3': 'CLIENT1value3',
    'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
        'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'},
    'CLIENT1section2': {'CLIENT1key1': 'CLIENT1value1',
        'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3',
        'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
            'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'}}})

Exceptions
===========

There are several places where ConfigObj may raise exceptions (other than because of bugs).

1) If a configspec filename you pass in doesn't exist, or a config file
   filename doesn't exist *and* ``file_error=True``, an ``IOError`` will be raised.

2) If you try to set a non-string key, or a non string value when
   ``stringify=False``, a ``TypeError`` will be raised.

3) A badly built config file will cause parsing errors.

4) A parsing error can also occur when reading a configspec.

5) In string interpolation you can specify a value that doesn't exist, or
create circular references (recursion).

Number 5 (which is actually two different types of exceptions) is documented in `String Interpolation`.

*This* section is about errors raised during parsing.

The base error class is `ConfigObjError`. This is a subclass of `SyntaxError`, so you can trap for `SyntaxError` without needing to directly import any of the ConfigObj exceptions.

The following other exceptions are defined (all deriving from `ConfigObjError`):

* **NestingError**
  
  This error indicates either a mismatch in the brackets in a section marker, or an excessive level of nesting.

* **ParseError**
  
  This error indicates that a line is badly written. It is neither a valid `key = value` line, nor a valid section marker line, nor a comment line.

* **DuplicateError**
  
  The keyword or section specified already exists.

* **ConfigspecError**
  
  An error occurred whilst parsing a configspec.

* **UnreprError**
  
  An error occurred when parsing a value in `unrepr mode`.

* **ReloadError**
  
  `reload` was called on a ConfigObj instance that doesn't have a valid filename attribute.

When parsing a configspec, ConfigObj will stop on the first error it encounters. It will raise a `ConfigspecError`. This will have an `error` attribute, which is the actual error that was raised.

Behaviour when parsing a config file depends on the option `raise_errors`. If ConfigObj encounters an error while parsing a config file:
If `raise_errors=True` then ConfigObj will raise the appropriate error and parsing will stop.

If `raise_errors=False` (the default) then parsing will continue to the end and *all* errors will be collected.

If `raise_errors` is False and multiple errors are found a `ConfigObjError` is raised. The error raised has a `config` attribute, which is the parts of the ConfigObj that parsed successfully. It also has an attribute `errors`, which is a list of *all* the errors raised. Each entry in the list is an instance of the appropriate error type. Each one has the following attributes (useful for delivering a sensible error message to your user):

* `line`: the original line that caused the error.
* `line_number`: its number in the config file.
* `message`: the error message that accompanied the error.

If only one error is found, then that error is re-raised. The error still has the `config` and `errors` attributes. This means that your error handling code can be the same whether one error is raised in parsing, or several.

It also means that in the most common case (a single error) a useful error message will be raised.

.. note::

   One wrongly written line could break the basic structure of your config file. This could cause every line after it to flag an error, so having a list of all the lines that caused errors may not be as useful as it sounds.

Validation
==========

.. hint::

   The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best reference is my article on ConfigObj:

   * `An Introduction to ConfigObj`

Validation is done through a combination of the configspec_ and a `Validator` object. For this you need `validate.py`_[#]_. See downloading_ if you don't have a copy.
Validation can perform two different operations:

1) Check that a value meets a specification. For example, check that a value is an integer between one and six, or is a choice from a specific set of options.

2) It can convert the value into the type required. For example, if one of your values is a port number, validation will turn it into an integer for you.

So validation can act as a transparent layer between the datatypes of your application configuration (boolean, integers, floats, etc) and the text format of your config file.

**configspec**

---------

The `validate` method checks members against an entry in the configspec. Your configspec therefore resembles your config file, with a check for every member.

In order to perform validation you need a `Validator` object. This has several useful built-in check functions. You can also create your own custom functions and register them with your Validator object.

Each check is the name of one of these functions, including any parameters and keyword arguments. The configspecs look like function calls, and they map to function calls.

The basic datatypes that an un-extended Validator can test for are:

* boolean values (True and False)
* integers (including minimum and maximum values)
* floats (including min and max)
* strings (including min and max length)
* IP addresses (v4 only)

It can also handle lists of these types and restrict a value to being one from a set of options.

An example configspec is going to look something like::

```python
port = integer(0, 100)
user = string(max=25)
mode = option('quiet', 'loud', 'silent')
```

You can specify default values, and also have the same configspec applied to several sections. This is called `repeated sections`.
For full details on writing configspecs, please refer to the `validate.py documentation`.

.. important::

Your configspec is read by ConfigObj in the same way as a config file.

That means you can do interpolation *within* your configspec.

In order to allow this, checks in the 'DEFAULT' section (of the root level of your configspec) are *not* used.

If you want to use a configspec *without* interpolation being done in it you can create your configspec manually and switch off interpolation:

.. code-block:: python

    from configobj import ConfigObj

    configspec = ConfigObj(spec_filename, interpolation=False, list_values=False, _inspec=True)
    conf = ConfigObj(config_filename, configspec=configspec)

If you need to specify the encoding of your configspec, then you can pass in a ConfigObj instance as your configspec. When you read your configspec file, you *must* specify `list_values=False`. If you need to support hashes in configspec values then you must also pass in `inspec=True`.

.. code-block:: python

    from configobj import ConfigObj
    configspec = ConfigObj(configspecfilename, encoding='UTF8', list_values=False, _inspec=True)
    config = ConfigObj(filename, configspec=configspec)

.. _validate.py documentation: http://www.voidspace.org.uk/python/validate.html

Type Conversion
---------------

By default, validation does type conversion. This means that if you specify `integer` as the check, then calling validate_ will actually change the value to an integer (so long as the check succeeds).

It also means that when you call the write_ method, the value will be converted back into a string using the `str` function.
To switch this off, and leave values as strings after validation, you need to set the `stringify_` attribute to `False`. If this is the case, attempting to set a value to a non-string will raise an error.

Default Values
--------------

You can set a default value in your check. If the value is missing from the config file then this value will be used instead. This means that your user only has to supply values that differ from the defaults.

If you *don’t* supply a default then for a value to be missing is an error, and this will show in the `return value` from validate.

Additionally you can set the default to be `None`. This means the value will be set to `None` (the object) whichever check is used. (It will be set to `None` rather than `None` if `stringify_` is `False`). You can use this to easily implement optional values in your config files. ::

```python
port = integer(0, 100, default=80)
user = string(max=25, default=0)
mode = option('quiet', 'loud', 'silent', default='loud')
nick = string(default=None)
```

.. note::

Because the default goes through type conversion, it also has to pass the check.

Note that `default=None` is case sensitive.

List Values
~~~~~~~~~~~

It's possible that you will want to specify a list as a default value. To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This makes checks look something like::

```python
checkname(default=list('val1', 'val2', 'val3'))
```

This works with all keyword arguments, but is most useful for default values.

Repeated Sections
Repeated sections are a way of specifying a configspec for a section that should be applied to all unspecified subsections in the same section.

The easiest way of explaining this is to give an example. Suppose you have a config file that describes a dog. That dog has various attributes, but it can also have many fleas. You don't know in advance how many fleas there will be, or what they will be called, but you want each flea validated against the same configspec.

We can define a section called *fleas*. We want every flea in that section (every sub-section) to have the same configspec applied to it. We do this by defining a single section called `__many__`. ::

```
[dog]
  name = string(default=Rover)
  age = float(0, 99, default=0)

[[fleas]]
  [[__many__]]
    bloodsucker = boolean(default=True)
    children = integer(default=10000)
    size = option(small, tiny, micro, default=tiny)
```

Every flea on our dog will now be validated using the `__many__` configspec.

`__many__` sections can have sub-sections, including their own `__many__` sub-sections. Defaults work in the normal way in repeated sections.

Repeated Values
---------------

As well as using `__many__` to validate unspecified sections you can use it to validate values. For example, to specify that all values in a section should be integers::

```
[section]
  __many__ = integer
```

If you want to use repeated values alongside repeated sections you can call one `__many__` and the other `___many___` (with three underscores).

Copy Mode
---------
Because you can specify default values in your configspec, you can use ConfigObj to write out default config files for your application.

However, normally values supplied from a default in a configspec are *not* written out by the `write` method.

To do this, you need to specify `copy=True` when you call validate. As well as not marking values as default, all the comments in the configspec file will be copied into your ConfigObj instance.

```python
from configobj import ConfigObj
from validate import Validator
vdt = Validator()
config = ConfigObj(configspec='default.ini')
config.filename = 'new_default.ini'
config.validate(vdt, copy=True)
config.write()
```

If you need to support hashes in the configspec values then you must create it with `inspec=True`. This has the side effect of switching off the parsing of inline comments, meaning that they won't be copied into the new config file.

(Configuration syntax is slightly different from configspec syntax and the parser can't support both inline comments and hashes in configspec values.)

Validation and Interpolation
----------------------------

String interpolation and validation don't play well together. When validation changes type it sets the value. If the value uses interpolation, then the interpolation reference would normally be overwritten. Calling `write` would then use the absolute value and the interpolation reference would be lost.

As a compromise - if the value is unchanged by validation then it is not reset. This means strings that pass through validation unmodified will not be overwritten. If validation changes type - the value has to be overwritten, and any interpolation references are lost.

Extra Values
------------

After validation the `extra_values` member of every section that is listed in the configspec will be populated with the names of members that are in the config file but not in the configspec.
If you are reporting configuration errors to your user this information can be useful, for example some missing entries may be due to misspelt entries that appear as extra values.

See the get_extra_values_ function

New in ConfigObj 4.7.0.

SimpleVal
---------

You may not need a full validation process, but still want to check if all the expected values are present.

Provided as part of the ConfigObj module is the `SimpleVal` object. This has a dummy `test` method that always passes.

The only reason a test will fail is if the value is missing. The return value from `validate` will either be `True`, meaning all present, or a dictionary with `False` for all missing values/sections.

To use it, you still need to pass in a valid configspec when you create the ConfigObj, but just set all the values to `''`. Then create an instance of `SimpleVal` and pass it to the `validate` method.

As a trivial example if you had the following config file::

```python
# config file for an application
port = 80
protocol = http
domain = voidspace
top_level_domain = org.uk
```

You would write the following configspec::

```python
port = 
protocol = 
domain = 
top_level_domain = 
```

```python
.. code-block:: python

    config = Configobj(filename, configspec=configspec)
    val = SimpleVal()
```
test = config.validate(val)
if test == True:
    print 'All values present.'
elif test == False:
    print 'No values present!'
else:
    for entry in test:
        if test[entry] == False:
            print '%s missing.' % entry

Empty values
============

Many config files from other applications allow empty values. As of version 4.3.0, ConfigObj will read these as an empty string.

A new option/attribute has been added (``write_empty_values``) to allow ConfigObj to write empty strings as empty values.

.. code-block:: python

    from configobj import ConfigObj
    cfg = ''
    key =
    key2 = # a comment
    ''.splitlines()
    config = ConfigObj(cfg)
    print config
    ConfigObj({'key': '', 'key2': ''})

config.write_empty_values = True
for line in config.write():
    print line

    key =
    key2 =  # a comment

unrepr mode
============

The ``unrepr`` option allows you to store and retrieve the basic Python data-types using config files. It has to use a slightly different syntax to normal ConfigObj files. Unsurprisingly it uses Python syntax.

This means that lists are different (they are surrounded by square brackets), and strings *must* be quoted.
The types that `unrepr` can work with are:

| strings, lists, tuples |
| None, True, False |
| dictionaries, integers, floats |
| longs and complex numbers |

You can't store classes, types or instances.

``unrepr`` uses `repr(object)` to write out values, so it currently *doesn't* check that you are writing valid objects. If you attempt to read an unsupported value, ConfigObj will raise a `configobj.UnknownType` exception.

Values that are triple quoted cased. The triple quotes are removed *before* converting. This means that you can use triple quotes to write dictionaries over several lines in your config files. They won't be written like this though.

If you are writing config files by hand, for use with `unrepr`, you should be aware of the following differences from normal ConfigObj syntax:

| List : `'[A List, 'With', 'Strings']` |
| Strings : `'''Must be quoted.''''` |
| Backslash : `'''The backslash must be escaped \'''` |

These all follow normal Python syntax.

In unrepr mode *inline comments* are not saved. This is because lines are parsed using the `compiler package <http://docs.python.org/lib/compiler.html>` which discards comments.

String Interpolation

```````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
"True" is also a valid value for the "interpolation" attribute, and will select `ConfigParser`-style interpolation. At some undetermined point in the future, that default *may* change to `Template`-style interpolation.

For `ConfigParser`-style interpolation, you specify a value to be substituted by including `%(name)s` in the value.

For `Template`-style interpolation, you specify a value to be substituted by including `{{cl}name{cr}}` in the value. Alternately, if 'name' is a valid Python identifier (i.e., is composed of nothing but alphanumeric characters, plus the underscore character), then the braces are optional and the value can be written as `$name`.

Note that `ConfigParser`-style interpolation and `Template`-style interpolation are mutually exclusive; you cannot have a configuration file that's a mix of one or the other. Pick one and stick to it. `Template`-style interpolation is simpler to read and write by hand, and is recommended if you don't have a particular reason to use `ConfigParser`-style.

Interpolation checks first the current section to see if `name` is the key to a value. ('name' is case sensitive).

If it doesn't find it, next it checks the 'DEFAULT' sub-section of the current section.

If it still doesn't find it, it moves on to check the parent section and the parent section's 'DEFAULT' subsection, and so on all the way up to the main section.

If the value specified isn't found in any of these locations, then a `MissingInterpolationOption` error is raised (a subclass of `ConfigObjError`).

If it is found then the returned value is also checked for substitutions. This allows you to make up compound values (for example directory paths) that use more than one default value. It also means it's possible to create circular references. If there are any circular references which would cause an infinite interpolation loop, an `InterpolationLoopError` is raised.

Both of these errors are subclasses of `InterpolationError`, which is a subclass of `ConfigObjError`.

String interpolation and validation don't play well together. This is because validation overwrites values - and so may erase the interpolation references. See `Validation and Interpolation`_. (This can only happen if validation has to *change* the value).

New in ConfigObj 4.7.0: String interpolation is now done in members of list
values.

String Interpolation and List Values
------------------------------------

Since version 4.7 string interpolation is done on string members of list values. If interpolation changes any members of the list then what you get back is a *copy* of the list rather than the original list.

This makes fetching list values slightly slower when interpolation is on, it also means that if you mutate the list changes won't be reflected in the original list:

```python
>>> c = ConfigObj()
>>> c['foo'] = 'boo'
>>> c['bar'] = ['%(foo)s']
>>> c['bar']
['boo']
>>> c['bar'].append('fish')
>>> c['bar']
['boo']
```

Instead of mutating the list you must create a new list and reassign it.

Comments
========

Any line that starts with a `#`, possibly preceded by whitespace, is a comment.

If a config file starts with comments then these are preserved as the `initial_comment`.

If a config file ends with comments then these are preserved as the `final_comment`.

Every key or section marker may have lines of comments immediately above it. These are saved as the `comments` attribute of the section. Each member is a list of lines.

You can also have a comment inline with a value. These are saved as the `inline_comments` attribute of the section, with one entry per member of the section.

Subsections (section markers in the config file) can also have comments.
See `Section Attributes`_ for more on these attributes.

These comments are all written back out by the `write` method.

flatten_errors
==============

.. code-block:: python

    flatten_errors(cfg, res)

Validation_ is a powerful way of checking that the values supplied by the user make sense.

The `validate` method returns a results dictionary that represents pass or fail for each value. This doesn't give you any information about *why* the check failed.

`flatten_errors` is an example function that turns a results dictionary into a flat list, that only contains values that *failed*.

`cfg` is the ConfigObj instance being checked, `res` is the results dictionary returned by `validate`.

It returns a list of keys that failed. Each member of the list is a tuple:

    ([list of sections...], key, result)

If `validate` was called with `preserve_errors=False` (the default) then `result` will always be `False`.

*list of sections* is a flattened list of sections that the key was found in.

If the section was missing then key will be `None`.

If the value (or section) was missing then `result` will be `False`.

If `validate` was called with `preserve_errors=True` and a value was present, but failed the check, then `result` will be the exception object returned. You can use this as a string that describes the failure.

For example:

    *The value "3" is of the wrong type*. 
Example Usage
-------------

The output from ``flatten_errors`` is a list of tuples.

Here is an example of how you could present this information to the user.

.. code-block:: python

    vtor = validate.Validator()
    # ini is your config file - cs is the configspec
    cfg = ConfigObj(ini, configspec=cs)
    res = cfg.validate(vtor, preserve_errors=True)
    for entry in flatten_errors(cfg, res):
        # each entry is a tuple
        section_list, key, error = entry
        if key is not None:
            section_list.append(key)
        else:
            section_list.append('[missing section]')
        section_string = ', '.join(section_list)
        if error == False:
            error = 'Missing value or section.'
        print section_string, ' = ', error

get_extra_values
================

.. code-block:: python

    get_extra_values(conf)

New in ConfigObj 4.7.0.

Find all the values and sections not in the configspec from a validated ConfigObj.

``get_extra_values`` returns a list of tuples where each tuple represents either an extra section, or an extra value.

The tuples contain two values, a tuple representing the section the value is in and the name of the extra values. For extra values in the top level section the first member will be an empty tuple. For values in the 'foo' section the first member will be `('foo',)` . For members in the 'bar'
subsection of the 'foo' section the first member will be `('foo', 'bar')`.

Extra sections will only have one entry. Values and subsections inside an extra section aren't listed separately.

NOTE: If you call `get_extra_values` on a ConfigObj instance that hasn't been validated it will return an empty list.

Example Usage
-------------

The output from `get_extra_values` is a list of tuples.

Here is an example of how you could present this information to the user.

.. code-block:: python

    vtor = validate.Validator()
    # ini is your config file - cs is the configspec
    cfg = ConfigObj(ini, configspec=cs)
    cfg.validate(vtor, preserve_errors=True)

    for sections, name in get_extra_values(cfg):
        # this code gets the extra values themselves
        the_section = cfg
        for section in sections:
            the_section = cfg[section]

        # the_value may be a section or a value
        the_value = the_section[name]

        section_or_value = 'value'
        if isinstance(the_value, dict):
            # Sections are subclasses of dict
            section_or_value = 'section'

        section_string = ', '.join(sections) or "top level"
        print 'Extra entry in section: %s. Entry %r is a %s' % (section_string, name, section_or_value)

CREDITS
=======

ConfigObj 4 is written by (and copyright) `Michael Foord`_ and `Nicola Larosa`_.

_
Particularly thanks to Nicola Larosa for help on the config file spec, the validation system and the doctests.

*validate.py* was originally written by Michael Foord and Mark Andrews.

Thanks to many others for input, patches and bugfixes.

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=======

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TODO
=====

Better support for configuration from multiple files, including tracking *where* the original file came from and writing changes to the correct file.

Make `newline` a keyword argument (as well as an attribute)?

`UTF16` encoded files, when returned as a list of lines, will have the BOM at the start of every line. Should this be removed from all but the first line?

Option to set warning type for unicode decode? (Defaults to strict).

A method to optionally remove uniform indentation from multiline values. (do as an example of using `walk` - along with string-escape)

Should the results dictionary from validate be an ordered dictionary if `odict <http://www.voidspace.org.uk/python/odict.html>`_ is available?

Implement some of the sequence methods (which include slicing) from the newer `odict`?

Preserve line numbers of values (and possibly the original text of each value).

ISSUES
======

.. note::

   Please file any bug reports to `Michael Foord` or the `ConfigObj` `Mailing List`.

There is currently no way to specify the encoding of a configspec file.

As a consequence of the changes to configspec handling in version 4.6.0, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the
configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using ``copy=\text{True}`` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in ``\_inspec=\text{True}`` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

When using ``copy=`` mode for validation, it won't copy ``\text{DEFAULT}`` sections. This is so that you *can* use interpolation in configspec files. This is probably true even if interpolation is off in the configspec.

You can't have a keyword with the same name as a section (in the same section). They are both dictionary keys - so they would overlap.

ConfigObj doesn't quote and unquote values if ``\text{list_values=False}``. This means that leading or trailing whitespace in values will be lost when writing. (Unless you manually quote).

Interpolation checks first the current section, then the 'DEFAULT' subsection of the current section, before moving on to the current section's parent and so on up the tree.

Does it matter that we don't support the `':'` divider, which is supported by ``\text{ConfigParser}``?

String interpolation and validation don't play well together. When validation changes type it sets the value. This will correctly fetch the value using interpolation - but then overwrite the interpolation reference. If the value is unchanged by validation (it's a string) - but other types will be.

**CHANGELOG**

This is an abbreviated changelog showing the major releases up to version 4. From version 4 it lists all releases and changes.

2010/02/27 - Version 4.7.2

* BUGFIX: Restore Python 2.3 compatibility
* BUGFIX: Members that were lists were being returned as copies due to interpolation introduced in 4.7. Lists are now only copies if interpolation changes a list member.
* BUGFIX: ``pop`` now does interpolation in list values as well.
* BUGFIX: where interpolation matches a section name rather than a value it is ignored instead of raising an exception on fetching the item.
* BUGFIX: values that use interpolation to reference members that don't exist can now be repr'd.
* BUGFIX: Fix to avoid writing `\r\n\n` on Windows when given a file opened in text write mode (`w`).

See `String Interpolation and List Values` for information about the problem with lists and interpolation.

2010/02/06 - Version 4.7.1
--------------------------
* Fix bug in options deprecation warning added in 4.7.0

2010/01/09 - Version 4.7.0
--------------------------
* Minimum supported version of Python is now 2.3
* ~25% performance improvement thanks to Christian Heimes
* String interpolation now works in list value members
* After validation any additional entries not in the configspec are listed in the `extra_values` section member
* Addition of the `get_extra_values` function for finding all extra values in a validated ConfigObj instance
* Deprecated the use of the `options` dictionary in the ConfigObj constructor and added explicit keyword arguments instead. Use `\*\*options` if you want to initialise a ConfigObj instance from a dictionary
* Constructing a ConfigObj from an existing ConfigObj instance now preserves the order of values and sections from the original instance in the new one
* BUGFIX: Checks that failed validation would not populate `default_values` and `restore_default_value()` wouldn't work for those entries
* BUGFIX: clear() now clears `defaults`
* BUGFIX: empty values in list values were accidentally valid syntax. They now raise a `ParseError` e.g. "value = 1, , 2"
* BUGFIX: Change to the result of a call to `validate` when `preserve_errors` is True. Previously sections where *all* values failed validation would return False for the section rather than preserving the errors. False will now only be returned for a section if it is missing
* Distribution includes version 1.0.1 of validate.py
* Removed `__revision__` and `__docformat__`
2009/04/13 - Version 4.6.0

* Pickling of ConfigObj instances now supported (thanks to Christian Heimes)
* Hashes in configspecs are now allowed (see note below)
* Replaced use of hasattr (which can swallow exceptions) with getattr
* __many__ in configspecs can refer to scalars (ordinary values) as well as sections
* You can use __many__ (three underscores!) where you want to use __many__ as well
* You can now have normal sections inside configspec sections that use __many__
* You can now create an empty ConfigObj with a configspec, programmatically set values and then validate
* A section that was supplied as a value (or vice-versa) in the actual config file would cause an exception during validation (the config file is still broken of course, but it is now handled gracefully)
* Added `as_list` method
* Removed the deprecated `istrue`, `encode` and `decode` methods
* Running test_configobj.py now also runs the doctests in the configobj module

As a consequence of the changes to configspec handling, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using `copy=True` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in `_inspec=True` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

2008/06/27 - Version 4.5.3

--------------------------

BUGFIX: fixed a problem with `copy=True` when validating with configspecs that use `__many__` sections.

2008/02/05 - Version 4.5.2

--------------------------

Distribution updated to include version 0.3.2 of validate_. This means that `None` as a default value in configspecs works.

2008/02/05 - Version 4.5.1

--------------------------
Distribution updated to include version 0.3.1 of validate_. This means that Unicode configspecs now work.

2008/02/05 - Version 4.5.0
--------------------------

ConfigObj will now guarantee that files will be written terminated with a newline.

ConfigObj will no longer attempt to import the `validate` module, until/unless you call `ConfigObj.validate` with `preserve_errors=True`. This makes it faster to import.

New methods `restore_default` and `restore_defaults`. `restore_default` resets an entry to its default value (and returns that value). `restore_defaults` resets all entries to their default value. It doesn't modify entries without a default value. You must have validated a ConfigObj (which populates the `default_values` dictionary) before calling these methods.

BUGFIX: Proper quoting of keys, values and list values that contain hashes (when writing). When `list_values=False`, values containing hashes are triple quoted.

Added the `reload` method. This reloads a ConfigObj from file. If the filename attribute is not set then a `ReloadError` (a new exception inheriting from `IOError`) is raised.

BUGFIX: Files are read in with `rb` mode, so that native/non-native line endings work!

Minor efficiency improvement in `unrepr` mode.

Added missing docstrings for some overridden dictionary methods.

Added the `reset` method. This restores a ConfigObj to a freshly created state.

Removed old CHANGETLOG file.

2007/02/04 - Version 4.4.0
--------------------------

Official release of 4.4.0

2006/12/17 - Version 4.3.3-alpha4
--------------------------
By Nicola Larosa

Allowed arbitrary indentation in the `indent_type` parameter, removed the
`NUM_INDENT_SPACES` and `MAX_INTERPOL_DEPTH` (a leftover) constants,
added indentation tests (including another docutils workaround, sigh), updated
the documentation.

By Michael Foord

Made the import of `compiler` conditional so that `ConfigObj` can be used

2006/12/17 - Version 4.3.3-alpha3
---------------------------------

By Nicola Larosa

Added a missing `self.` in the `_handle_comment` method and a related test,
per Sourceforge bug #1523975.

2006/12/09 - Version 4.3.3-alpha2
---------------------------------

By Nicola Larosa

Changed interpolation search strategy, based on this patch by Robin Munn:
http://sourceforge.net/mailarchive/message.php?msg_id=17125993

2006/12/09 - Version 4.3.3-alpha1
---------------------------------

By Nicola Larosa

Added Template-style interpolation, with tests, based on this patch by
(awful archives, bad Sourceforge, bad).

2006/06/04 - Version 4.3.2
--------------------------

Changed error handling, if parsing finds a single error then that error will
be re-raised. That error will still have an `errors` and a `config` attribute.
Fixed bug where \n terminated files could be truncated.

Bugfix in `unrepr` mode, it couldn't handle `#` in values. (Thanks to Philippe Normand for the report.)

As a consequence of this fix, ConfigObj doesn't now keep inline comments in `unrepr` mode. This is because the parser in the `compiler package` doesn't keep comments.

Error messages are now more useful. They tell you the number of parsing errors and the line number of the first error. (In the case of multiple errors.)

Line numbers in exceptions now start at 1, not 0.

Errors in `unrepr` mode are now handled the same way as in the normal mode. The errors stored will be an `UnreprError`.

2006/04/29 - Version 4.3.1
--------------------------

Added `validate.py` back into `configobj.zip`. (Thanks to Stewart Midwinter)

Updated to `validate.py` 0.2.2.

Preserve tuples when calling the `dict` method. (Thanks to Gustavo Niemeyer.)

Changed `__repr__` to return a string that contains `ConfigObj({ ... })`.

Change so that an options dictionary isn't modified by passing it to ConfigObj. (Thanks to Artarious.)

Added ability to handle negative integers in `unrepr`. (Thanks to Kevin Dangoor.)

2006/03/24 - Version 4.3.0
--------------------------

Moved the tests and the CHANGELOG (etc) into a separate file. This has reduced the size of `configobj.py` by about 40%.

Added the `unrepr` mode to reading and writing config files. Thanks to Kevin Dangoor for this suggestion.

Empty values are now valid syntax. They are read as an empty string `''`. (`key = '', or `key = # comment``.`)
`validate` now honours the order of the configspec.

Added the `copy` mode to validate. Thanks to Louis Cordier for this suggestion.

Fixed bug where files written on windows could be given `\r\n\n` line terminators.

Fixed bug where last occurring comment line could be interpreted as the final comment if the last line isn't terminated.

Fixed bug where nested list values would be flattened when `write` is called. Now sub-lists have a string representation written instead.

Deprecated `encode` and `decode` methods instead.

You can now pass in a ConfigObj instance as a configspec (remember to read the configspec file using `list_values=False`).

Sorted footnotes in the docs.

2006/02/16 - Version 4.2.0

--------------------------

Removed `BOM_UTF8` from `__all__`.

The `BOM` attribute has become a boolean. (Defaults to `False`.) It is *only* `True` for the `UTF16/UTF8` encodings.

File like objects no longer need a `seek` attribute.

Full unicode support added. New options/attributes `encoding`, `default_encoding`.

ConfigObj no longer keeps a reference to file like objects. Instead the `write` method takes a file like object as an optional argument. (Which will be used in preference of the `filename` attribute if that exists as well.)

utf16 files decoded to unicode.

If `BOM` is `True`, but no encoding specified, then the utf8 BOM is written out at the start of the file. (It will normally only be `True` if the utf8 BOM was found when the file was read.)

Thanks to Aaron Bentley for help and testing on the unicode issues.
File paths are *not* converted to absolute paths, relative paths will remain relative as the `filename` attribute.

Fixed bug where `final_comment` wasn't returned if `write` is returning a list of lines.

Deprecated `istrue`, replaced it with `as_bool`.

Added `as_int` and `as_float`.

2005/12/14 - Version 4.1.0

---------------

Added `merge`, a recursive update.

Added `preserve_errors` to `validate` and the `flatten_errors` example function.

Thanks to Matthew Brett for suggestions and helping me iron out bugs.

Fixed bug where a config file is *all* comment, the comment will now be `initial_comment` rather than `final_comment`.

Validation no longer done on the `DEFAULT` section (only in the root level). This allows interpolation in configs.

Also use the new list syntax in validate_0.2.1. (For configs).

2005/12/02 - Version 4.0.2

---------------------

Fixed bug in `create_empty`. Thanks to Paul Jimenez for the report.

2005/11/05 - Version 4.0.1

---------------------

Fixed bug in `Section.walk` when transforming names as well as values.

Added the `istrue` method. (Fetches the boolean equivalent of a string value).

Fixed `list_values=False` - they are now only quoted/unquoted if they are multiline values.
List values are written as "item, item" rather than "item, item".

2005/10/17 - Version 4.0.0
--------------------------

**ConfigObj 4.0.0 Final**

Fixed bug in `setdefault`. When creating a new section with setdefault the reference returned would be to the dictionary passed in *not* to the new section. Bug fixed and behaviour documented.

Obscure typo/bug fixed in `write`. Wouldn't have affected anyone though.

2005/09/09 - Version 4.0.0 beta 5
-------------------------------

Removed `PositionError`.

Allowed quotes around keys as documented.

Fixed bug with commas in comments. (matched as a list value)

2005/09/07 - Version 4.0.0 beta 4
-------------------------------

Fixed bug in `__delitem__`. Deleting an item no longer deletes the `inline_comments` attribute.

Fixed bug in initialising ConfigObj from a ConfigObj.

Changed the mailing list address.

2005/08/28 - Version 4.0.0 beta 3
-------------------------------

Interpolation is switched off before writing out files.

Fixed bug in handling `StringIO` instances. (Thanks to report from Gustavo Niemeyer.)

Moved the doctests from the `__init__` method to a separate function. (For the sake of IDE calltips).
2005/08/25 - Version 4.0.0 beta 2
---------------------------------
Amendments to *validate.py*.

First public release.

2005/08/21 - Version 4.0.0 beta 1
---------------------------------
Reads nested subsections to any depth.

Multiline values.

Simplified options and methods.

New list syntax.

Faster, smaller, and better parser.

Validation greatly improved. Includes:

* type conversion
* default values
* repeated sections

Improved error handling.

Plus lots of other improvements.

2004/05/24 - Version 3.0.0
--------------------------
Several incompatible changes: another major overhaul and change. (Lots of improvements though).

Added support for standard config files with sections. This has an entirely new interface: each section is a dictionary of values.

Changed the update method to be called writein: update clashes with a dict method.

Made various attributes keyword arguments, added several.

Configspecs and orderlists have changed a great deal.
Removed support for adding dictionaries: use update instead.

Now subclasses a new class called caselessDict. This should add various dictionary methods that could have caused errors before.

It also preserves the original casing of keywords when writing them back out.

Comments are also saved using a `caselessDict`.

Using a non-string key will now raise a `TypeError` rather than converting the key.

Added an exceptions keyword for *much* better handling of errors.

Made `createempty=False` the default.

Now checks indict *and* any keyword args. Keyword args take precedence over indict.

``', ':', '=', ',' and '\t'`` are now all valid dividers where the keyword is unquoted.

ConfigObj now does no type checking against configspec when you set items.

delete and add methods removed (they were unnecessary).

Docs rewritten to include all this gumph and more; actually ConfigObj is *really* easy to use.

Support for stdout was removed.

A few new methods added.

Charmap is now incorporated into ConfigObj.

2004/03/14 - Version 2.0.0 beta
-------------------------------
Re-written it to subclass dict. My first forays into inheritance and operator overloading.

The config object now behaves like a dictionary.

I've completely broken the interface, but I don't think anyone was really using it anyway.

This new version is much more 'classy'.
It will also read straight from/to a filename and completely parse a config file without you *having* to supply a config spec.

Uses listparse, so can handle nested list items as values.

No longer has getval and setval methods: use normal dictionary methods, or add and delete.

2004/01/29 - Version 1.0.5
--------------------------

Version 1.0.5 has a couple of bugfixes as well as a couple of useful additions over previous versions.

Since 1.0.0 the buildconfig function has been moved into this distribution, and the methods reset, verify, getval and setval have been added.

A couple of bugs have been fixed.

Origins
-------

ConfigObj originated in a set of functions for reading config files in the `atlantibots <http://www.voidspace.org.uk/atlantibots/>`_ project. The original functions were written by Rob McNeur.

Footnotes
=========

.. [#] And if you discover any bugs, let us know. We'll fix them quickly.

.. [#] If you specify a filename that doesn't exist, ConfigObj will assume you are creating a new one. See the *create_empty* and *file_error* options.

.. [#] They can be byte strings (*ordinary* strings) or Unicode.

.. [#] Except we don't support the RFC822 style line continuations, nor `:` as a divider.

.. [#] This is a change in ConfigObj 4.2.0. Note that ConfigObj doesn't call the seek method of any file like object you pass in. You may want to call
```python
import file_object

# only copies members
# not attributes/comments
cfg2 = ConfigObj(cfg1)
```

Since ConfigObj 4.7.0 the order of members and sections will be preserved when copying a ConfigObj instance.

Other than lists of strings.

The exception is if it detects a UTF16 encoded file which it must decode before parsing.

The method signature shows that this method takes two arguments. The second is the section to be written. This is because the `write` method is called recursively.

The dict method doesn't actually use the deepcopy mechanism. This means if you add nested lists (etc) to your ConfigObj, then the dictionary returned by dict may contain some references. For all normal ConfigObjs it will return a deepcopy.

Passing `(section, key)` rather than `(value, key)` allows you to change the value by setting `section[key] = newval`. It also gives you access to the *rename* method of the section.

Minimum required version of *validate.py* 0.2.0.

.. listquote: http://www.voidspace.org.uk/python/modules.shtml#listquote
.. Michael Foord: http://www.voidspace.org.uk/python/weblog/index.shtml
.. Nicola Larosa: http://www.teknico.net

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The End

1.2532 token-provider 1.0.1

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1.2534 git 1.9.1-1ubuntu0.10

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1.2538 ed 1.9-2
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This package was put together by me, James Troup <james@nocrew.org>,
from the GNU sources, which I obtained from:


The changes were small:

o adding support for the Debian package maintenance scheme, by adding
  various debian/* files.
o buf.c (open_sbuf): use tmpfile() and not mktemp().
o glbl.c (exec_global), i.o (read_stream, get_stream_line), main.c
(main, exec_command, get_matching_node_addr, strip_escapes), re.c
(get_compiled_pattern), sub.c (extract_subst_template,
substitute_matching_text): parentheses to quiet -Wall.
o ed.1: various fixes by Matt Kraai <kraai@alumni.carnegiemellon.edu>

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1.2539 scala-reflect 2.11.12

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/** The entry point into Scala runtime reflection.
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 */

Found in path(s):
*/opt/cola/permits/1135595082_1613641379.79/0/scala-reflect-2-11-12-sources-4-jar/scala/reflect/runtime/package.scala

1.2540 unused 1.0.0

1.2541 hadoop-client 3.3.0
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

=====

For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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1.2545 open-ldap 2.4.50

1.2545.1 Available under license :

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Version 2.8, 17 August 2003 

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1.2546 jetty-plus 9.3.24.v20180605

1.2547 vim 7.4.052-1ubuntu3.1

1.2547.1 Available under license :
*uganda.txt*    For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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SUMMARY
*iccf*  *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda.  Please see [kcc]
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/
You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable support.
items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of “Stichting ICCF Holland” in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.
Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

if version < 600
   " Remove any old syntax stuff hanging around
   syn clear
elseif exists("b:current_syntax")
   finish
endif

" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^# ][^#]+ contained
syn region psfQuotString  start=+"+ skip=+"+ end=+"+ contained

syn match  psfObjTag   "\[-_+A-Z0-9a-z]+(\.-[-_+A-Z0-9a-z]+)*" contained
syn match  psfAttAbbrev "\(<\|fr||\{aclqrv\}\)(\.<|>\|<=|>|>=|==)\[^,\]+ contained

syn match  psfNumber    "\d+" contained
syn match  psfFloat     "\d+\.(\d+)*" contained
syn match  psfLongDate  "\d{8}\.(\d+)*" contained

syn keyword psfState    available configured corrupt installed transient contained
syn keyword psfPState   applied committed superseded contained
syn keyword psfBoolean  false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
"  architecture category_tag control_directory copyright
"  create_date description directory file_permissions install_source
"  install_type location machine_type mod_date number os_name os_release
"  os_version pose_as_os_name pose_as_os_release readme revision
"  share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# \t]*\s+[^# \t]*~rs=e-1 contains=psfUnquotString,psfComment end=~$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# \t]*\s+"~rs=e-1 contains=psfQuotString,psfComment skip=~"~ matchgroup=psfQuotString end=~"~ keepend

"  These regions are defined in attempt to do syntax checking for some
"  of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s+" contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib
start="^\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|supersedes\|superseded_by\)\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s+" contains=psfObjTags,psfComment end="$" keepend
Define the default highlighting.
For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn’t have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif
HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment
delcommand HiLink
endif
Long descriptions and copyrights confuse the syntax highlighting, so force vim to backup at least 100 lines before the top visible line looking for a sync location.

```
syn sync lines=100
```

```
let b:current_syntax = "psf"
/*
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*/
```

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(XPM - X PixMap format version 2 & 3)
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Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.2548 iputils 20121221-4ubuntu1.1

1.2548.1 Available under license:

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1.2549 distlib 0.1.8 1ubuntu1
1.2549.1 Available under license :
   A. HISTORY OF THE SOFTWARE
   =============================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.
All Python releases are Open Source (see [http://www.opensource.org](http://www.opensource.org) for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<td>no</td>
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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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- Erik Bray
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in
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The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
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Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

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1.2568 golang-protobuf-extensions 1.0.2-0.20181231171920-c182affec369

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1.2571 eclipse-core-filesystem

1.4.100.v20140514-1614

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BIRT Runtime

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

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You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console
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In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by .\xxx.rptdesign

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Upstream-Contact: Luis R. Rodriguez <mcgrof@gmail.com>

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1.2573 tcpdump 4.9.2 3.el7

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1.2575 openssh 6.6.1

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif /* !_COMPAT_POLL_H_ */

#ifndef COMPAT_POLL_H
#define COMPAT_POLL_H

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* @version 3.0 (December 2000)
* Optimised ANSI C code for the Rijndael cipher (now AES)
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

#ifdef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifdef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)*(int*)&(w)/
#define WIFEXITED(w)!((_W_INT(w)) & 0377)
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w)
#define WEXITSTATUS(w)((WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)((WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
*/
#endif
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**1.2580 xalan 2.7.1**

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=head1 NAME

Parse::DebControl - Easy OO parsing of debian control-like files

=head1 SYNOPSIS

use Parse::DebControl;

$parser = new Parse::DebControl;

$data = $parser->parse_mem($control_data, $options);
$data = $parser->parse_file('./debian/control', $options);
$data = $parser->parse_web($url, $options);

$writer = new Parse::DebControl;

$string = $writer->write_mem($singlestanza);
$string = $writer->write_mem([$stanza1, $stanza2]);

$writer->write_file($filename, $singlestanza, $options);
$writer->write_file($filename, [$stanza1, $stanza2], $options);
Parse::DebControl is an easy OO way to parse debian control files and other colon separated key-value pairs. It's specifically designed to handle the format used in Debian control files, template files, and the cache files used by dpkg.

For basic format information see:

This module does not actually do any intelligence with the file content (because there are a lot of files in this format), but merely handles the format. It can handle simple control files, or files hundreds of lines long efficiently and easily.

=head2 Class Methods

=over 4
=item * C<new()>  
=item * C<new(I<$debug>)>
=back

Returns a new Parse::DebControl object. If a true parameter I<$debug> is passed in, it turns on debugging, similar to a call to C<DEBUG()> (see below);

=over 4
=item * C<parse_file($control_filename,I<$options>)>
=back

Takes a filename as a scalar and an optional hashref of options (see below). Will parse as much as it can, warning (if C<DEBUG>ing is turned on) on parsing errors.

Returns an array of hashrefs, containing the data in the control file, split up by stanza. Stanzas are delimited by newlines, and multi-line fields are expressed as such post-parsing. Single periods are treated as special extra newline delimiters, per convention. Whitespace is also stripped off of lines as to make it less-easy to make mistakes with hand-written conf files).

The options hashref can take parameters as follows. Setting the string to true
enables the option.

useTieIxHash - Instead of an array of regular hashrefs, uses Tie::IxHash-based hashrefs

discardCase - Remove all case items from keys (not values)

stripComments - Remove all commented lines in standard #comment format. Literal #’s are represented by ##. For instance

Hello there #this is a comment
Hello there, I like ##CCCCCC as a grey.

The first is a comment, the second is a literal "#".

verbMultiLine - Keep the description AS IS, and no not collapse leading spaces or dots as newlines. This also keeps whitespace from being stripped off the end of lines.

tryGzip - Attempt to expand the data chunk with gzip first. If the text is already expanded (ie: plain text), parsing will continue normally. This could optionally be turned on for all items in the future, but it is off by default so we don't have to scrub over all the text for performance reasons.

=back

=over 4

=item * C<parse_mem($control_data, I<$options>>

Similar to C<parse_file>, except takes data as a scalar. Returns the same array of hashrefs as C<parse_file>. The options hashref is the same as C<parse_file> as well; see above.

=back

=over 4

=item * C<parse_web($url, I<$options>>

Similar to the other parse_* functions, this pulls down a control file from the web and attempts to parse it. For options and return values, see C<parse_file>, above

=back

=over 4
write_file($filename, $data, I<$options>)

write_file($handle, $data)

write_file($filename, [data1, data2, data3], I<$options>)

write_file($handle, [data, data2, data3])

This function takes a filename or a handle and writes the data out. The data can be given as a single hashref or as an arrayref of hashrefs. It will then write it out in a format that it can parse. The order is dependant on your hash sorting order. If you care, use Tie::IxHash. Remember for reading back in, the module doesn't care.

The I<$options> hashref can contain one of the following two items:

addNewline - At the end of the last stanza, add an additional newline.
appendFile - (default) Write to the end of the file
clobberFile - Overwrite the file given.
gzip - Compress the data with gzip before writing

Since you determine the mode of your filehandle, passing it along with an options hashref obviously won't do anything; rather, it is ignored.

The I<addNewline> option solves a situation where if you are writing stanzas to a file in a loop (such as logging with this module), then the data will be streamed together, and won't parse back in correctly. It is possible that this is the behavior that you want (if you wanted to write one key at a time), so it is optional.

This function returns the number of bytes written to the file, undef otherwise.

write_mem($data)

write_mem([data1, data2, data3])

This function works similarly to the write_file method, except it returns the control structure as a scalar, instead of writing it to a file. There is no I%</options> for this file (yet);
Turns on debugging. Calling it with no parameter or a true parameter turns on verbose warnings. Calling it with a false parameter turns it off. It is useful for nailing down any format or internal problems.

=head1 CHANGES

B<Version 2.005> - January 13th, 2004

=item * More generic test suite fix for earlier versions of Test::More

=item * Updated copyright statement

=back

B<Version 2.004> - January 12th, 2004

=item * More documentation formatting and typo fixes

=item * CHANGES file now generated automatically

=item * Fixes for potential test suite failure in Pod::Coverage run

=item * Adds the "addNewline" option to write_file to solve the streaming stanza problem.

=item * Adds tests for the addNewline option

=back

B<Version 2.003> - January 6th, 2004

=item * Added optional Test::Pod test

=item * Skips potential Win32 test failure in the module where it wants to write to /tmp.

=item * Added optional Pod::Coverage test
=back

B<Version 2.002> - October 7th, 2003

=over 4

=item * No code changes. Fixes to test suite

=back

B<Version 2.001> - September 11th, 2003

=over 4

=item * Cleaned up more POD errors

=item * Added tests for file writing

=item * Fixed bug where write_file ignored the gzip parameter

=back

B<Version 2.0> - September 5th, 2003

=over 4

=item * Version increase.

=item * Added gzip support (with the tryGzip option), so that compresses control files can be parsed on the fly

=item * Added gzip support for writing of control files

=item * Added parse_web to snag files right off the web. Useful for things such as apt's Sources.gz and Packages.gz

=back

B<Version 1.10b> - September 2nd, 2003

=over 4

=item * Documentation fix for ## vs # in stripComments

=back

B<Version 1.10> - September 2nd, 2003

=over 4
=item * Documentation fixes, as pointed out by pudge

=item * Adds a feature to stripComments where ## will get interpolated as a literal pound sign, as suggested by pudge.

=back

B<Version 1.9> - July 24th, 2003

=over 4

=item * Fix for warning for edge case (uninitialized value in chomp)

=item * Tests for CRLF

=back

B<Version 1.8> - July 11th, 2003

=over 4

=item * By default, we now strip off whitespace unless verbMultiLine is in place. This makes sense for things like conf files where trailing whitespace has no meaning. Thanks to pudge for reporting this.

=back

B<Version 1.7> - June 25th, 2003

=over 4

=item * POD documentation error noticed again by Frank Lichtenheld

=item * Also by Frank, applied a patch to add a "verbMultiLine" option so that we can hand multiline fields back unparsed.

=item * Slightly expanded test suite to cover new features

=back

B<Version 1.6.1> - June 9th, 2003

=over 4

=item * POD cleanups noticed by Frank Lichtenheld. Thank you, Frank.

=back

B<Version 1.6> - June 2nd, 2003
Cleaned up some warnings when you pass in empty hashrefs or arrayrefs
Added stripComments setting
Cleaned up POD errors

B <Version 1.5> - May 8th, 2003

Added a line to quash errors with undef hashkeys and writing
Fixed the Makefile.PL to straighten up DebControl.pm being in the wrong dir

B <Version 1.4> - April 30th, 2003

Removed exports as they were unnecessary. Many thanks to pudge, who pointed this out.

B <Version 1.3> - April 28th, 2003

Fixed a bug where writing blank stanzas would throw a warning. Fix found and supplied by Nate Oostendorp.

B <Version 1.2b> - April 25th, 2003

Fixed:

A bug in the test suite where IxHash was not disabled in 40write.t. Thanks to Jeroen Latour from cpan-testers for the report.

---

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B<Version 1.2> - April 24th, 2003

Fixed:

=over 4

=item * A bug in IxHash support where multiple stanzas might be out of order

=back

B<Version 1.1> - April 23rd, 2003

Added:

=over 4

=item * Writing support

=item * Tie::IxHash support

=item * Case insensitive reading support

=back

B<Version 1.0> - April 23rd, 2003

=over 4

=item * This is the initial public release for CPAN, so everything is new.

=back

=head1 BUGS

The module will let you parse otherwise illegal key-value pairs and pairs with spaces. Badly formed stanzas will do things like overwrite duplicate keys, etc. This is your problem.

As of 1.10, the module uses advanced regexp's to figure out about comments. If the tests fail, then stripComments won't work on your earlier perl version (should be fine on 5.6.0+)

=head1 TODO

Change the name over to the Debian:: namespace, probably as Debian::ControlFormat. This will happen as soon as the project that uses this module reaches stability, and we can do some minor tweaks.

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=cut

Found in path(s):
* /opt/cola/permits/1138400261_1614282246.51/0/libparse-debcontrol-perl-2-005-orig-1-tar-gz/Parse-DebControl-2.005/lib/Parse/DebControl.pm

1.2582 libtool 2.4.2-1.7ubuntu1

1.2582.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

   Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software—to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

   For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

   Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
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   Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
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@enumerate a
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@end enumerate

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@example

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@c man end

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Petersen(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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* m4/ax_func_which_gethostbyname_r.m4

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^L

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/DefaultNioByteChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/nio/AbstractNioChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/socket/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/socket/InternetProtocolFamily.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/socket/NioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/socket/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/DefaultNioByteChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/DefaultEventLoop.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java

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 */
/**
 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [ @link ChannelPipeline ].
 *
 * <h3>Sub-types</h3>
 * <p>
 * [ @link ChannelHandler ] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[ @link ChannelInboundHandler ] to handle inbound I/O events, and</li>
 * <li>[ @link ChannelOutboundHandler ] to handle outbound I/O operations.</li>
 * </ul>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>[ @link ChannelInboundHandlerAdapter ] to handle inbound I/O events, </li>
 * <li>[ @link ChannelOutboundHandlerAdapter ] to handle outbound I/O operations, and</li>
 * <li>[ @link ChannelDuplexHandler ] to handle both inbound and outbound events</li>
 * </ul>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * <p>
 *
 * <h3>The context object</h3>
 * <p>
 * A [ @link ChannelHandler ] is provided with a [ @link ChannelHandlerContext ]
 * object. A [ @link ChannelHandler ] is supposed to interact with the
 * [ @link ChannelPipeline ] it belongs to via a context object. Using the
* context object, the [@link ChannelHandler] can pass events upstream or 
  downstream, modify the pipeline dynamically, or store the information 
  (using [@link AttributeKey]s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A [@link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
  * public interface Message {
  *     // your methods here
  * }
  *
  * public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {
  *     private boolean loggedIn;
  *     <code>@Override</code>
  *     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
  *         if (message instanceof LoginMessage) {
  *             authenticate((LoginMessage) message);
  *             loggedIn = true;
  *         } else (message instanceof GetDataMessage) {
  *             if (loggedIn) {
  *                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
  *             } else {
  *                 fail();
  *             }
  *         }
  *     }
  * }
  *
  * // Create a new handler instance per channel.
  * // See [@link ChannelInitializer#initChannel(Channel)].
  * public class DataServerInitializer extends [@link ChannelInitializer]<@link Channel> {
  *     <code>@Override</code>
  *     public void initChannel([@link Channel] channel) {
  *         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
  *     }
  * }
  *
  * </pre>

* Because the handler instance has a state variable which is dedicated to 
  one connection, you have to create a new handler instance for each new 
  channel to avoid a race condition where a unauthenticated client can get 
  the confidential information:
* <pre>
  * // Create a new handler instance per channel.
  * // See [@link ChannelInitializer#initChannel(Channel)].
  * public class DataServerInitializer extends [@link ChannelInitializer]<@link Channel> {
  *     <code>@Override</code>
  *     public void initChannel([@link Channel] channel) {
  *         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
  *     }
  * }
  *
  * </pre>
Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `AttributeKey`s which is provided by `ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    public void login(ChannelHandlerContext ctx, LoginMessage message) {
        authenticate((LoginMessage) message);
        attr.set(true);
    }
    ...
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```
The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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  jar/io/netty/channel/socket/nio/NioChannelOption.java
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  jar/io/netty/channel/ChannelOutputShutdownEvent.java
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  jar/io/netty/bootstrap/FailedChannel.java
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c

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1.2616 perl 1.04-291.el7

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.

"
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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The End

```perl
#!/perl
=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
```
my $current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/;  
    # or die "Year not found in README copyright message '$copyright_msg'";
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright \b(\d{4,})\b/;  
    # or die "Copyright statement not found in perl -v output '$output'";
    $year;
}
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Version 3, 29 June 2007

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1.2623 opensaml-saml-impl 3.3.0

1.2624 python 2.7.5 88.el7
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope...
Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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b) Use a suitable shared library mechanism for linking with the
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will operate properly with a modified version of the library, if
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
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during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
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The specification of DOM Level 2’s various parts is at:
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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David Megginson, david@megginson.com
2000-05-05

1.2640 kmod 15-0ubuntu6

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
SUMMARY

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http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
  file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
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- According to Richard Stallman the Vim license is GNU GPL compatible.
  A few minor changes have been made since he checked it, but that should not
  make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
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- Once a change is included that goes under the GNU GPL, this forces all
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  MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*kJc*/ *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.
The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation
Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.
Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland. Postbank, nr. 4548774 IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information: http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info: https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
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Finsterruetihof 1
8134 Adliswil
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```
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007
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it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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@item Source Code.

The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

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The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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@item
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collector. Later contributions should instead be mentioned in
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef(s(detlef@s.src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(acg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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packageName: com.example

class CopyingRangeMarker extends TextEdit {

// Implementation of CopyingRangeMarker

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package com.example;

import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
 * A <code>CopyingRangeMarker</code> can be used to track positions when executing
 * text edits. Additionally a copying range marker stores a local copy of the
 * text it captures when it gets executed.
 *
 * @since 3.0
 */
public final class CopyingRangeMarker extends TextEdit {

// Implementation of CopyingRangeMarker

// End of CopyingRangeMarker

```java
// Import statements
import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

// Class definition
public final class CopyingRangeMarker extends TextEdit {

// Implementation of CopyingRangeMarker

// End of CopyingRangeMarker
```
private String fText;

/**
 * Creates a new <tt>CopyRangeMarker</tt> for the given
 * offset and length.
 * @param offset the marker's offset
 * @param length the marker's length
 */
public CopyingRangeMarker(int offset, int length) {
    super(offset, length);
}

/*
 * Copy constructor
 */
private CopyingRangeMarker(CopyingRangeMarker other) {
    super(other);
    fText= other.fText;
}

/* non Java-doc
 * @see TextEdit#doCopy
 */
protected TextEdit doCopy() {
    return new CopyingRangeMarker(this);
}

/*
 * @see TextEdit#accept0
 */
protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/* non Java-doc
 * @see TextEdit#performDocumentUpdating
 */
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText= document.get(getOffset(), getLength());
    fDelta= 0;
    return fDelta;
}

/* non Java-doc
/* @see TextEdit#deleteChildren */

/** package */ boolean deleteChildren() {
    return false;
}

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   * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
   * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
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lib/krb5/kdb/kdb_convert.c
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lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gsd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g dsp_name.c
lib/gssapi/mechglue/g dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g rel_cred.c
lib/gssapi/mechglue/g rel_name.c
lib/gssapi/mechglue/g rel_oid_set.c
lib/gssapi/mechglue/g seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g store_cred.c
lib/gssapi/mechglue/g unseal.c
lib/gssapi/mechglue/g userok.c
lib/gssapi/mechglue/g utils.c
lib/gssapi/mechglue/g verify.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.2675 libhttp-cookies-perl 6.00-2

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=head1 NAME

HTTP::Cookies::Netscape - access to Netscape cookies files

=head1 SYNOPSIS

use LWP;
use HTTP::Cookies::Netscape;
$cookie_jar = HTTP::Cookies::Netscape->new(
    file => "c:/program files/netscape/users/ZombieCharity/cookies.txt",
);
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( $cookie_jar );

=head1 DESCRIPTION

This is a subclass of C<HTTP::Cookies> that reads (and optionally
writes) Netscape/Mozilla cookie files.

See the documentation for L<HTTP::Cookies>.

=head1 CAVEATS
Please note that the Netscape/Mozilla cookie file format can't store all the information available in the Set-Cookie2 headers, so you will probably lose some information if you save in this format.

At time of writing, this module seems to work fine with Mozilla Phoenix/Firebird.

=head1 SEE ALSO

L<HTTP::Cookies::Microsoft>

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=head1 NAME

HTTP::Cookies - HTTP cookie jars

=head1 SYNOPSIS

use HTTP::Cookies;
$cookie_jar = HTTP::Cookies->new(
    file => "$ENV{'HOME'}/lwp_cookies.dat",
    autosave => 1,
);

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar($cookie_jar);
Or for an empty and temporary cookie jar:

use LWP;
my $browser = LWP::UserAgent->new;
(browser->cookie_jar( {} ));

=head1 DESCRIPTION

This class is for objects that represent a "cookie jar" -- that is, a
database of all the HTTP cookies that a given LWP::UserAgent object
knows about.

Cookies are a general mechanism which server side connections can use
to both store and retrieve information on the client side of the
connection. For more information about cookies refer to
<URL:http://curl.haxx.se/rfc/cookie_spec.html> and
<URL:http://www.cookiecentral.com/>. This module also implements the
new style cookies described in I<RFC 2965>.
The two variants of cookies are supposed to be able to coexist happily.

Instances of the class I<HTTP::Cookies> are able to store a collection
of Set-Cookie2: and Set-Cookie: headers and are able to use this
information to initialize Cookie-headers in I<HTTP::Request> objects.
The state of a I<HTTP::Cookies> object can be saved in and restored from
files.

=head1 METHODS

The following methods are provided:

=over 4

=item $cookie_jar = HTTP::Cookies->new

The constructor takes hash style parameters. The following
parameters are recognized:

  file:     name of the file to restore cookies from and save cookies to
  autosave: save during destruction (bool)
  ignore_discard: save even cookies that are requested to be discarded (bool)
  hide_cookie2: do not add Cookie2 header to requests

Future parameters might include (not yet implemented):

  max_cookies  300
  max_cookies_per_domain  20
  max_cookie_size  4096
no_cookies  list of domain names that we never return cookies to

=item $cookie_jar->add_cookie_header( $request )

The add_cookie_header() method will set the appropriate Cookie:-header for the I<HTTP::Request> object given as argument. The $request must have a valid url attribute before this method is called.

=item $cookie_jar->extract_cookies( $response )

The extract_cookies() method will look for Set-Cookie: and Set-Cookie2: headers in the I<HTTP::Response> object passed as argument. Any of these headers that are found are used to update the state of the $cookie_jar.

=item $cookie_jar->set_cookie( $version, $key, $val, $path, $domain, $port, $path_spec, $secure, $maxage, $discard, %rest )

The set_cookie() method updates the state of the $cookie_jar. The $key, $val, $domain, $port and $path arguments are strings. The $path_spec, $secure, $discard arguments are boolean values. The $maxage value is a number indicating number of seconds that this cookie will live. A value <= 0 will delete this cookie. %rest defines various other attributes like "Comment" and "CommentURL".

=item $cookie_jar->save

=item $cookie_jar->save( $file )

This method file saves the state of the $cookie_jar to a file. The state can then be restored later using the load() method. If a filename is not specified we will use the name specified during construction. If the attribute I<ignore_discard> is set, then we will even save cookies that are marked to be discarded.

The default is to save a sequence of "Set-Cookie3" lines. "Set-Cookie3" is a proprietary LWP format, not known to be compatible with any browser. The I<HTTP::Cookies::Netscape> sub-class can be used to save in a format compatible with Netscape.

=item $cookie_jar->load

=item $cookie_jar->load( $file )

This method reads the cookies from the file and adds them to the $cookie_jar. The file must be in the format written by the save() method.
=item $cookie_jar->revert

This method empties the $cookie_jar and re-loads the $cookie_jar from the last save file.

=item $cookie_jar->clear

=item $cookie_jar->clear( $domain )

=item $cookie_jar->clear( $domain, $path )

=item $cookie_jar->clear( $domain, $path, $key )

Invoking this method without arguments will empty the whole $cookie_jar. If given a single argument only cookies belonging to that domain will be removed. If given two arguments, cookies belonging to the specified path within that domain are removed. If given three arguments, then the cookie with the specified key, path and domain is removed.

=item $cookie_jar->clear_temporary_cookies

Discard all temporary cookies. Scans for all cookies in the jar with either no expire field or a true C<discard> flag. To be called when the user agent shuts down according to RFC 2965.

=item $cookie_jar->scan( \&callback )

The argument is a subroutine that will be invoked for each cookie stored in the $cookie_jar. The subroutine will be invoked with the following arguments:

0 version
1 key
2 val
3 path
4 domain
5 port
6 path_spec
7 secure
8 expires
9 discard
10 hash

=item $cookie_jar->as_string

=item $cookie_jar->as_string( $skip_discardables )
The as_string() method will return the state of the $cookie_jar represented as a sequence of "Set-Cookie3" header lines separated by "\n". If $skip_discardables is TRUE, it will not return lines for cookies with the I<Discard> attribute.

=head1 SEE ALSO

L<HTTP::Cookies::Netscape>, L<HTTP::Cookies::Microsoft>

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=head1 NAME

HTTP::Cookies::Microsoft - access to Microsoft cookies files

=head1 SYNOPSIS

use LWP;
use HTTP::Cookies::Microsoft;
use Win32::TieRegistry(Delimiter => "/");
my $cookies_dir = $Registry->
  {"CUser/Software/Microsoft/Windows/CurrentVersion/Explorer/Shell Folders/Cookies"};

$cookie_jar = HTTP::Cookies::Microsoft->new(
    file => "$cookies_dir\index.dat",
    'delayload' => 1,
);
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( $cookie_jar );

=head1 DESCRIPTION

This is a subclass of C<HTTP::Cookies> which loads Microsoft Internet Explorer 5.x and 6.x for Windows (MSIE) cookie files.
See the documentation for L<HTTP::Cookies>.

=head1 METHODS

The following methods are provided:

=over 4

=item $cookie_jar = HTTP::Cookies::Microsoft->new;

The constructor takes hash style parameters. In addition
to the regular HTTP::Cookies parameters, HTTP::Cookies::Microsoft
recognizes the following:

delayload: delay loading of cookie data until a request
is actually made. This results in faster
runtime unless you use most of the cookies
since only the domain's cookie data
is loaded on demand.

=back

=head1 CAVEATS

Please note that the code DOESN'T support saving to the MSIE
cookie file format.

=head1 AUTHOR

Johnny Lee <typo_pl@hotmail.com>

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NAME

HTTP::Cookies - HTTP cookie jars
SYNOPSIS

use HTTP::Cookies;
$cookie_jar = HTTP::Cookies->new(
    file => "$ENV{'HOME'}/lwp_cookies.dat",
    autosave => 1,
);

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar($cookie_jar);

Or for an empty and temporary cookie jar:

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( {} );

DESCRIPTION

This class is for objects that represent a "cookie jar" -- that is, a
database of all the HTTP cookies that a given LWP::UserAgent object
knows about.

Cookies are a general mechanism which server side connections can use to
both store and retrieve information on the client side of the
connection. For more information about cookies refer to
<URL:http://curl.haxx.se/rfc/cookie_spec.html> and
<URL:http://www.cookiecentral.com/>. This module also implements the new
style cookies described in *RFC 2965*. The two variants of cookies are
supposed to be able to coexist happily.

Instances of the class *HTTP::Cookies* are able to store a collection of
Set-Cookie2: and Set-Cookie: headers and are able to use this
information to initialize Cookie-headers in *HTTP::Request* objects. The
state of a *HTTP::Cookies* object can be saved in and restored from
files.

METHODS

The following methods are provided:

$cookie_jar = HTTP::Cookies->new

The constructor takes hash style parameters. The following
parameters are recognized:

    file:    name of the file to restore cookies from and save cookies to
    autosave: save during destruction (bool)
    ignore_discard: save even cookies that are requested to be discarded (bool)
    hide_cookie2: do not add Cookie2 header to requests
Future parameters might include (not yet implemented):

- `max_cookies` 300
- `max_cookies_per_domain` 20
- `max_cookie_size` 4096

- `no_cookies` list of domain names that we never return cookies to

```perl
$cookie_jar->add_cookie_header($request)
```

The `add_cookie_header()` method will set the appropriate Cookie:-header for the *HTTP::Request* object given as argument. The `$request` must have a valid url attribute before this method is called.

```perl
$cookie_jar->extract_cookies($response)
```

The `extract_cookies()` method will look for Set-Cookie: and Set-Cookie2: headers in the *HTTP::Response* object passed as argument. Any of these headers that are found are used to update the state of the `$cookie_jar`.

```perl
$cookie_jar->set_cookie($version, $key, $val, $path, $domain, $port, $path_spec, $secure, $maxage, $discard, %rest)
```

The `set_cookie()` method updates the state of the `$cookie_jar`. The `$key`, `$val`, `$domain`, `$port` and `$path` arguments are strings. The `$path_spec`, `$secure`, `$discard` arguments are boolean values. The `$maxage` value is a number indicating number of seconds that this cookie will live. A value <= 0 will delete this cookie. `%rest` defines various other attributes like "Comment" and "CommentURL".

```perl
$cookie_jar->save
$cookie_jar->save($file)
```

This method file saves the state of the `$cookie_jar` to a file. The state can then be restored later using the `load()` method. If a filename is not specified we will use the name specified during construction. If the attribute *ignore_discard* is set, then we will even save cookies that are marked to be discarded.

- The default is to save a sequence of "Set-Cookie3" lines.
- "Set-Cookie3" is a proprietary LWP format, not known to be compatible with any browser. The *HTTP::Cookies::Netscape* sub-class can be used to save in a format compatible with Netscape.

```perl
$cookie_jar->load
$cookie_jar->load($file)
```

This method reads the cookies from the file and adds them to the `$cookie_jar`. The file must be in the format written by the `save()` method.
$cookie_jar->revert
   This method empties the $cookie_jar and re-loads the $cookie_jar from the last save file.

$cookie_jar->clear
$cookie_jar->clear( $domain )
$cookie_jar->clear( $domain, $path )
$cookie_jar->clear( $domain, $path, $key )
   Invoking this method without arguments will empty the whole $cookie_jar. If given a single argument only cookies belonging to that domain will be removed. If given two arguments, cookies belonging to the specified path within that domain are removed. If given three arguments, then the cookie with the specified key, path and domain is removed.

$cookie_jar->clear_temporary_cookies
   Discard all temporary cookies. Scans for all cookies in the jar with either no expire field or a true 'discard' flag. To be called when the user agent shuts down according to RFC 2965.

$cookie_jar->scan( \&callback )
   The argument is a subroutine that will be invoked for each cookie stored in the $cookie_jar. The subroutine will be invoked with the following arguments:

   0  version
   1  key
   2  val
   3  path
   4  domain
   5  port
   6  path_spec
   7  secure
   8  expires
   9  discard
   10  hash

$cookie_jar->as_string
$cookie_jar->as_string( $skip_discardables )
   The as_string() method will return the state of the $cookie_jar represented as a sequence of "Set-Cookie3" header lines separated by "\n". If $skip_discardables is TRUE, it will not return lines for cookies with the *Discard* attribute.

SEE ALSO
   HTTP::Cookies::Netscape, HTTP::Cookies::Microsoft

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1.2680 bean-validation-api 2.0.1.Final

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* /opt/ws_local/PERMITS_SQL/1075319440_1596106946.44/0/netty-buffer-4-1-35-final-sources-1-jar/io/netty/buffer/UnstableByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1075319440_1596106946.44/0/netty-buffer-4-1-35-final-sources-1-jar/io/netty/buffer/UnstableUnmanagedByteBuffer.java
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/TypeWithGenericTypeParameters.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/TypeWithGenericTypeParameters.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/TypeWithGenericTypeParameters.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonDocumentWriter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonWriter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/AbstractBsonWriter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonValue.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/package-info.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/CodecCache.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonValueCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/Optional.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/UuidRepresentation.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonNullConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ExtendedJsonDecimal128Converter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ShellDateTimeConverter.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ShellDecimal128Converter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonSymbolConverter.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonTimestamp.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-
  jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
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  jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-
  jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonValueCodecProvider.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonToken.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/ValueCodecProvider.java

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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonDocumentReader.java

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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonBooleanCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/ObjectIdCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonDoubleCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BooleanCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BinaryCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonMinKeyCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonRegularExpressionCodec.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonTypeClassMap.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonInput.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonDocumentCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonMaxKeyCodec.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonDocumentWrapperCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/io/package-info.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonInvalidOperationException.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/LazyCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/CodecProvider.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/BsonTimestampCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/IntegerCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/CollectibleCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/configuration/ChildCodecRegistry.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/BsonElement.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/package-info.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/MapCodecProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/configuration/ProvidersCodecRegistry.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/BsonBinarySubType.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/BSONException.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/BsonJavaScriptWithScopeCodec.java

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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/AtomicBooleanCodec.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/AtomicIntegerCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/AtomicLongCodec.java

1.2690 python 2.7.5-90.el7
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.2693 asm 5.1

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see { @link Type}).
 *
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 *
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName}). May be
 * <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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- "Constructs a new [link Textifier]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [link Textifier(int)] version.
- @throws IllegalStateException
- If a subclass calls this constructor.

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  */

/**
   * Creates a new [ @link GeneratorAdapter]. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * [ @link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
   * version.
   *
   * @param mv
   *            the method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see [ @link Opcodes]).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see [ @link Type Type]).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */

Found in path(s):
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
  jar/org/objectweb/asm/commons/GeneratorAdapter.java

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*/
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)] method.
 *
 * @param owner the owner's class name.
 * @param access the method's access flags (see [@link Opcodes]).
 * @param name the method's name.
 * @param desc the method's descriptor (see [@link Type Type]).
 * @param mv the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
 *
 * @throws IllegalStateException If a subclass calls this constructor.
 *
 Found in path(s):
  * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/ByteVector.java
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/LdcInsnNode.java

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/**
 * @author John Smith
 * @since 1.0
 */

public class MyClass {

    /**
     * Constructor.
     * @param arg1
     * @param arg2
     */
    public MyClass(String arg1, String arg2) {
        // Constructor implementation
    }

    // Other methods and fields...
}

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1.2694 jetty-servlet 8.1.14.v20131031

1.2695 proto-google-common-protos 1.0.0

1.2696 python-kitchen 1.1.1-5.el7

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1.2698 hadoop-mapreduce-client-common
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/\*{lz4.h,lz4.c,lz4hc.h,lz4hc.c}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/\*{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/\*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jQuery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/TERMINAL

=======
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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"sh 1 "Maintaining folders"
"pp
Mail includes a simple facility for maintaining groups of messages together in folders. This section describes this facility.

To use the folder facility, you must tell Mail where you wish to keep your folders. Each folder of messages will be a single file. For convenience, all of your folders are kept in a single directory of your choosing. To tell Mail where your folder directory is, put a line of the form

```
(set folder=letters)
```

in your .mailrc file. If, as in the example above, your folder directory does not begin with a `/', Mail will assume that your folder directory is to be found starting from your home directory. Thus, if your home directory is

```
/home/person
```

the above example told Mail to find your folder directory in

```
/home/person/letters
```

Anywhere a file name is expected, you can use a folder name, preceded with `+'. For example, to put a message into a folder with the

```
save +classwork
```

to save the current message in the classwork folder. If the classwork folder does not yet exist, it will be created. Note that messages which are saved with the

```
save
```

command are automatically removed from your system mailbox.

In order to make a copy of a message in a folder without causing that message to be removed from your system mailbox, use the

```
copy
```

command, which is identical in all other respects to the

```
save
```
command. For example,

```
>.(l copy +classwork )l
```

copies the current message into the
```
.i classwork
```
folder and leaves a copy in your system mailbox.
```
.pp
```
The
```
.b folder
```
command
can be used to direct
```
.i Mail
```
to the contents of a different folder.
For example,

```
>.(l folder +classwork )l
directs
```
```
.i Mail
```
to read the contents of the
```
.i classwork
```
folder. All of the commands that you can use on your system
```
.mailbox are also applicable to folders, including
```
.b type ,
```
.b delete ,
```
and
```
.b reply .
```
To inquire which folder you are currently editing, use simply:

```
>.(l folder )l
```
```
.pp
```
To list your current set of folders, use the
```
.b folders
```
command.
```
.pp
```
To start
```
.i Mail
```
reading one of your folders, you can use the
```
.b \-f
```
option described in section 2. For example:

```
>.(l % Mail \-f +classwork )l
```
```
.pp
```
will cause
```
.i Mail
```
to read your
.i classwork
folder without looking at your system mailbox.
/*$OpenBSD: version.c,v 1.7 2009/10/27 23:59:40 deraadt Exp */
/*$NetBSD: version.c,v 1.4 1996/06/08 19:48:46 christos Exp */
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 */

/*
 * Just keep track of the date/sid of this version of Mail.
 * Load this file first to get a "total" Mail version.
 */
const char version[] = "8.1.2 01/15/2001";
"$OpenBSD: mail7.nr,v 1.3 2003/06/03 02:56:11 millert Exp $"
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.i from
.line, which consists of the word
.q From
.followed by a user name, followed by anything, followed by
.a date in the format returned by the
.i ctime
.library routine described in section 3 of the Unix Programmer's
.i ctime
.format date is:
.&l
.Tue Dec  1 10:58:23 1981
.&l
.The
.i ctime
date may be optionally followed by a single space and a
time zone indication, which
.should be three capital letters, such as PDT.
Each header field line is of the form:

```
(name: information)
```

Name can be anything, but only certain header fields are recognized as having any meaning. The recognized header fields are:

- article-id
- bcc
- cc
- from
- reply-to
- sender
- subject
- to

Other header fields are also significant to other systems; see, for example, the current Arpanet message standard for much more information on this topic.

A header field can be continued onto following lines by making the first character on the following line a space or tab character.

If any headers are present, they must be followed by a blank line.

The part that follows is called the body of the message, and must be ASCII text, not containing null characters. Each line in the message body must be no longer than 512 characters and terminated with an ASCII newline character.

If binary data must be passed through the mail system, it is suggested that this data be encoded in a system which encodes six bits into a printable character (i.e.: uuencode).

For example, one could use the upper and lower case letters, the digits, and the characters comma and period to make up the 64 characters. Then, one can send a 16-bit binary number as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.

The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.

The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.

It should be noted that some network transport protocols enforce limits to the lengths of messages.
Mail CommandDescription

--------------------------------------------------------------------------------

t [message list] type message(s).
more [message list] read message(s), through the $PAGER
ngoto and type next message.
e [message list] edit message(s).
f [message list] give head lines of messages.
d [message list] delete message(s).
s [message list] <file> append message(s) to file.
u [message list] undelete message(s).
R [message list] reply to message sender(s).
r [message list] reply to message sender(s) and all recipients.
p [message list] print message list.
pre [message list] make messages go back to /var/mail.
m <recipient list> mail to specific recipient(s).
qquit, saving unresolved messages in mbox.
xquit, do not remove system mailbox.
hprint out active message headers.
!shell escape.
| [msglist] command pipe message(s) to shell command.
pi [msglist] command pipe message(s) to shell command.
cd [directory] chdir to directory or home if none given
fi <file> switch to file (%=system inbox, %user=user's system inbox). + searches in your folder
directory for the file.
set variable=value set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or
user names separated by spaces. If omitted, Mail uses the current message.
The pipe command doesn't accept user names or subject message list, since
that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by
spaces. Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user
(specified user's system inbox), # (previous file), & (mbox file), or an
expression understood by ${SHELL:-/bin/sh} -c 'echo ...'.

------------------------------------------------------------------------------
The following ~ escapes are defined:
~b name ... Add names to "blind" Cc: list.
~c name ... Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messages Same as ~f, but includes all headers.
~f messages Read in messages.
~h Edit the header fields.
~M messages Same as ~m, but includes all headers.
~m messages Read in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< file Read a file into the message buffer.
~s string Set Subject: field to string.
~t name ... Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.
~!command Execute shell command.
~|command Pipe message through command.
~:command | ~_command Execute a Mail command.
~~string Quote a single tilde.
~. Simulate end of file on input.

------------------------------------------------------------------------------
.sh 1 Introduction
provides a simple and friendly environment for sending and receiving mail. It divides incoming mail into its constituent messages and allows the user to deal with them in any order. In addition, it provides a set of ed-like commands for manipulating messages and sending mail.

Mail offers the user simple editing capabilities to ease the composition of outgoing messages, as well as providing the ability to define and send to names which address groups of users. Finally, Mail is able to send and receive messages across such networks as the ARPANET, UUCP, and Berkeley network.

This document describes how to use the Mail program to send and receive messages. The reader is not assumed to be familiar with other message handling systems, but should be familiar with the \s-2UNIX\s0 commands.

shell, the text editor, and some of the common \s-2UNIX\s0 commands.

"The \s-2UNIX\s0 Programmer's Manual," "An Introduction to Csh," and "Text Editing with Ex and Vi" can be consulted for more information on these topics.

A word of explanation is in order here concerning the name Mail: the original UNIX mail program was known as /bin/mail. The BSD mail program was called Mail to differentiate it from the older mail program. /bin/mail is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as /usr/bin/mail ; /usr/bin/Mail is simply a link for backwards compatibility. To further confuse the issue, a second link was retained for compatibility with SystemV systems, mailx . In this document, we use the original name, `Mail',
to refer to any of these.

Here is how messages are handled:
the mail system accepts incoming
for you from other people
and collects them in a file, called your
"system mailbox".
When you log in, the system notifies you if there are any messages
waiting in your system mailbox. If you are a
user, you will be notified when new mail arrives if you inform
the shell of the location of your mailbox. On OpenBSD,
your system mailbox is located in the directory /var/mail
in a file with your login name. If your login name is
sam, then you can make
notify you of new mail by including the following line in your .cshrc
file:
(l
set mail=/var/mail/sam
)l
When you read your mail using
Mail, it reads your system mailbox and separates that file into the
individual messages that have been sent to you. You can then
read, reply to, delete, or save these messages.
Each message is marked with its author and the date they sent it.

DIR=usd/07.mail
SRCS=mail0.nr mail1.nr mail2.nr mail3.nr mail4.nr mail5.nr mail6.nr \ mail7.nr mail8.nr mail9.nr maila.nr
MACROS=-me

paper.ps: ${SRCS}
$[TBL] ${SRCS} | ${ROFF} > ${.TARGET}
paper.txt: ${SRCS}
$[TBL] ${SRCS} | ${ROFF} -Tascii > ${.TARGET}
.include <bsd.doc.mk>
\"$OpenBSD: mail2.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $\"\n\" Copyright (c) 1980, 1993 \n\" The Regents of the University of California. All rights reserved.\"
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OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

sh 1 "Common usage"

The Mail command has two distinct usages, according to whether one
wants to send or receive mail. Sending mail is simple: to send a
message to a user whose login name is, say, root, use the shell
command:
% Mail root
then type your message. When you reach the end of the message, type
an EOT (Control-D) at the beginning of a line, which will cause
Mail to echo \EOT and return you to the Shell. When the user you sent mail
to next logs in, he will receive the message:
You have mail.
to alert him to the existence of your message.

If, while you are composing the message
you decide that you do not wish to send it after all, you can
abort the letter with a <Control-C>. Typing a single <Control-C>
causes

\( \text{i Mail} \)
to print

\( \text{.l} \)
(Interrupt -- one more to kill letter)

\( \text{.l} \)
Typing a second

<Control-C> causes

\( \text{i Mail} \)
to save your partial letter on the file

\( .q \text{ dead.letter} \)
in your home directory and abort the letter.

Once you have
sent mail to someone, there is no way to undo the act, so be
careful.

The message your recipient reads will consist of the message you
typed, preceded by a line telling who sent the message (your login name)
and the date and time it
was sent.

If you want to send the same message to several other people, you can list
their login names on the command line.

Thus,

\( .l \)
% Mail sam bob john

Tuition fees are due next Friday. Don't forget!!

<Control-D>
EOT

\( .l \)
will send the reminder to sam, bob, and john.

If, when you log in, you see the message,

\( .l \)
You have mail.

\( .l \)
you can read the mail by typing simply:

\( .l \)
% Mail

\( .l \)
.i Mail

will respond by typing its version number and date and then listing
the messages you have waiting. Then it will type a prompt and await your command. The messages are assigned numbers starting with 1 - you refer to the messages with these numbers.

Mail keeps track of which messages are new (have been sent since you last read your mail) and read (have been read by you). New messages have an N next to them in the header listing and old, but unread messages have a U next to them.

Mail keeps track of new/old and read/unread messages by putting a header field called Status into your messages.

To look at a specific message, use the type command, which may be abbreviated to simply t.

For example, if you had the following messages:

```
N 1 root     Wed Sep 21 09:21  "Tuition fees"
N 2 sam      Tue Sep 20 22:55
```

you could examine the first message by giving the command:

```
t 1
```

which might cause Mail to respond with, for example:

```
Message  1:
From root  Wed Sep 21 09:21:45 1978
Subject: Tuition fees
Status: R

Tuition fees are due next Wednesday. Don't forget!!
```

Many commands that operate on messages take a message number as an
argument like the
\texttt{.b type}
command. For these commands, there is a notion of a current
message. When you enter the
\texttt{i Mail}
program, the current message is initially the first one. Thus,
you can often omit the message number and use, for example,
\texttt{(l}
t\texttt{)}
to type the current message. As a further shorthand, you can type a message
by simply giving its message number. Hence,
\texttt{(l}
1\texttt{)}
\texttt{(l)}
would type the first message.
\texttt{pp}
Frequently, it is useful to read the messages in your mailbox in order,
one after another. You can read the next message in
\texttt{i Mail}
by simply typing a newline. As a special case, you can type a newline
as your first command to
\texttt{i Mail}
to type the first message.
\texttt{pp}
If, after reading a message, you wish to immediately send a reply,
you can do so with the
\texttt{.b reply}
command.
\texttt{.b Reply ,}
like
\texttt{.b type ,}
takes a message number as an argument.
\texttt{i Mail}
then begins a message addressed to the user who sent you the message.
You may then type in your letter in reply, followed by a \texttt{<Control-D>}
at the beginning of a line, as before.
\texttt{i Mail}
will type EOT, then type the ampersand prompt to indicate its readiness
to accept another command. In our example, if, after typing the
first message, you wished to reply to it, you might give the command:
\texttt{(l}
reply\texttt{)}
\texttt{(l)}
\texttt{i Mail}
responds by typing:
\texttt{(l}
To: root
Subject: Re: Tuition fees

and waiting for you to enter your letter.
You are now in the message collection mode described at the beginning of this section and
Mail
will gather up your message up to a <Control-D>.
Note that it copies the subject
header from the original message. This is useful in that correspondence about a particular matter will tend to retain the same subject heading, making it easy to recognize. If there are other header fields in the message, the information found will also be used.
For example, if the letter had a
header listing several recipients,
Mail
would arrange to send your reply to the same people as well.
Similarly, if the original message contained a
header listing several recipients,
Mail
would send your reply to those users, too.
Mail
is careful, though, not too send the message to you, even if you appear in the
header listing several recipients,
Mail
or
header listing several recipients,
Mail
field, unless you ask to be included explicitly. See section 4 for more details.

After typing in your letter, the dialog with
Mail
might look like the following:
reply
To: root
Subject: Tuition fees

Thanks for the reminder
EOT
The `reply` command is especially useful for sustaining extended conversations over the message system, with other users receiving copies of the conversation. The `reply` command can be abbreviated to `r`.

Sometimes you will receive a message that has been sent to several people and wish to reply only to the person who sent it. The `Reply` command replies to a message, but sends a copy to the sender only.

If you wish, while reading your mail, to send a message to someone, but not as a reply to one of your messages, you can send the message directly with the `mail` command, which takes as arguments the names of the recipients you wish to send to. For example, to send a message to `frank`, you would do:

```
mail frank
This is to confirm our meeting next Friday at 4.
EOT
```

The `mail` command can be abbreviated to `m`.

Normally, each message you receive is saved in the file `mbox` in your login directory at the time you leave `Mail`. Often, however, you will not want to save a particular message you have received because it is only of passing interest. To avoid saving a message in `mbox` you can delete it using the `delete` command.
command. In our example,
```bash
.!(l
delete 1
)l
```
will prevent
.i Mail
from saving message 1 (from root) in
.i mbox.
In addition to not saving deleted messages,
.i Mail
will not let
you type them, either. The effect is to make the message disappear
altogether, along with its number. The
.b delete
command can be abbreviated to simply
.b d.

Many features of
.i Mail
can be tailored to your liking with the
.b set
command. The
.b set
command has two forms, depending on whether you are setting
a
.i binary
option or a
.i valued
option.
Binary options are either on or off. For example, the
.q ask
option informs
.i Mail
that each time you send a message, you want it to prompt you for
a subject header, to be included in the message.
To set the
.q ask
option, you would type
```bash
.(l
set ask
)l
```

Another useful
.i Mail
option is
.q hold.
Unless told otherwise,
.i Mail
moves the messages from your system mailbox to the file
    .i mbox
in your home directory when you leave
    .i Mail
If you want
    .i Mail
to keep your letters in the system mailbox instead, you can set the
    .q hold
option.
    .pp
Valued options are values which
    .i Mail
uses to adapt to your tastes. For example, the
    .q SHELL
option tells
    .i Mail
which shell you like to use, and is specified by
    .(l
set SHELL=/bin/csh
    )l
for example. Note that no spaces are allowed in
    .q "SHELL=/bin/csh."
A complete list of the
    .i Mail
options appears in section 5.
    .pp
Another important valued option is
    .q crt.
If you use a fast video terminal, you will find that when you
print long messages, they fly by too quickly for you to read them.
With the
    .q crt
option, you can make
    .i Mail
print any message larger than a given number of lines by sending
it through a paging program. This program is specified by the
valued option \BPAGER\fP.
If \BPAGER\fP is not set, a default paginator is used.
For example, most CRT users with 24-line screens should do:
    .(l
set crt=24
    )l
to paginate messages that will not fit on their screens.
In the default state, \fImore\fP (default paginator) prints a screenful of
information, then types ``byte XXX'', where `XXX' represents the number
of bytes paginated.
Type a space to see the next screenful.
Another adaptation to user needs that .i Mail provides is that of .i aliases.

An alias is simply a name which stands for one or more real user names.

.i Mail

sent to an alias is really sent to the list of real users associated with it. For example, an alias can be defined for the members of a project, so that you can send mail to the whole project by sending mail to just a single name. The .b alias command in .i Mail defines an alias. Suppose that the users in a project are named Sam, Sally, Steve, and Susan. To define an alias called .q project for them, you would use the .i Mail command:

```plaintext
alias project sam sally steve susan
```

The .b alias command can also be used to provide a convenient name for someone whose user name is inconvenient. For example, if a user named .q "Bob Anderson" had the login name .q anderson," you might want to use:

```plaintext
alias bob anderson
```

so that you could send mail to the shorter name, .q bob.

While the .b alias and .b set commands allow you to customize .i Mail, they have the drawback that they must be retyped each time you enter .i Mail.

To make them more convenient to use, .i Mail always looks for two files when it is invoked. It first reads
a system wide file
.q /etc/mail.rc,
then a user specific file,
.q .mailrc,
which is found in the user’s home directory.
The system wide file
is maintained by the system administrator and
contains
.b set
commands that are applicable to all users of the system.
The
.q .mailrc
file is usually used by each user to set options the way he likes
and define individual aliases.
For example, my .mailrc file looks like this:
.q
set ask nosave SHELL=/bin/csh
.q
As you can see, it is possible to set many options in the
same
.b set
command. The
.q nosave
option is described in section 5.
.pp
Mail aliasing is implemented
at the system-wide level
by the mail delivery
system
.i sendmail.
These aliases are stored in the file /etc/mail/aliases and are
accessible to all users of the system.
The lines in /etc/mail/aliases are of
the form:
.q
alias: name\*<1\*>, name\*<2\*>, name\*<3\*>
.q
where
.i alias
is the mailing list name and the
.i name\*<i\*>
are the members of the list. Long lists can be continued onto the next
line by starting the next line with a space or tab. Remember that you
must execute the command
.i newaliases
(as superuser)
after editing /etc/mail/aliases since the delivery system
uses an indexed file created by
We have seen that `Mail` can be invoked with command line arguments which are people to send the message to, or with no arguments to read mail. Specifying the `-f` flag on the command line causes `Mail` to read messages from a file other than your system mailbox. For example, if you have a collection of messages in the file `letters` you can use `Mail` to read them with:

```
% Mail -f letters
```

You can use all the `Mail` commands described in this document to examine, modify, or delete messages from your `letters` file, which will be rewritten when you leave `Mail` with the `quit` command described below.

Since mail that you read is saved in the file `mbox` in your home directory by default, you can read `mbox` in your home directory by using simply:

```
% Mail -f
```

Normally, messages that you examine using the `type` command are saved in the file `mbox` in your home directory if you leave `Mail` with the
command described below.
If you wish to retain a message in your system mailbox
you can use the
command to tell
.to Mail
to leave it there.
The
command accepts a list of message numbers, just like
command and may be abbreviated to
and may be abbreviated to
and may be abbreviated to
Messages in your system mailbox that you do not examine are
normally retained in your system mailbox automatically.
If you wish to have such a message saved in
without reading it, you may use the
command to have them so saved. For example,

in our example would cause the second message (from sam)
to be saved in
when the
command is executed.
.is Mbox
is also the way to direct messages to your
file if you have set the
option described above.
is also the way to direct messages to your
file if you have set the
option described above.

When you have perused all the messages of interest, you can leave
.with the
command, which saves the messages you have typed but not
deleted in the file

in your login directory. Deleted messages are discarded irretrievably, and messages left untouched are preserved in your system mailbox so that you will see them the next time you type:

```
%(l
% Mail
%(l
The
.b quit
command can be abbreviated to simply
.b q.
.p
If you wish for some reason to leave
.i Mail
quickly without altering either your system mailbox or
.i mbox,
you can type the
.b x
command (short for
.b exit),
which will immediately return you to the Shell without changing anything.
.p
If, instead, you want to execute a Shell command without leaving
.i Mail,
you can type the command preceded by an exclamation point, just as in the text editor. Thus, for instance:
%(l
%!date
%(l
will print the current date without leaving
.i Mail.
.p
Finally, the
.b help
command is available to print out a brief summary of the
.i Mail
commands, using only the single character command abbreviations.
#$/OpenBSD: Makefile,v 1.9 2010/01/04 17:50:39 deraadt Exp $
beforeinstall:
cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o ${BINOWN} -g ${BINGRP} \
   -m 444 ${SFILES} ${DESTDIR}/usr/share/misc

distribution:
cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o root -g wheel \
   -m 644 ${EFILES} ${DESTDIR}/etc

.include <bsd.prog.mk>
"OpenBSD: mail.1,v 1.61 2013/07/18 07:11:00 jmc Exp $

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" SUCH DAMAGE.
"
"@(#)mail.18.8 (Berkeley) 4/28/95

Ds $Mdocdate: July 18 2013 $
Ds MAIL 1
Ds
Ds NAME
Ds nm mail ,
Ds nm mailx ,
Ds Nm Mail
Ds Nd send and receive mail
SYNOPSIS

Commands:
- `mail`
- `-words`
- `-d`
- `-i`
- `-n`
- `-v`
- `-f`
- `-o`
- `-u`

DESCRIPTION

`mail` is an intelligent mail processing system which has a command syntax reminiscent of `ed` with lines replaced by messages.

Options:
- `-tag -width Ds`
- `-b Ar list`
- `-c Ar list`
- `-d`
- `-E`
- `-f Op Ar file`
- `-o`
- `-u Ar user`

`-b Ar list` sends blind carbon copies to `Ar list`.

`-c Ar list` sends carbon copies to `Ar list` of users.

`-d` causes `mail` to output all sorts of information useful for debugging.

`-E` don't send messages with an empty body.

`-f Op Ar file` read in the contents of your mailbox (or the specified `Ar file` ) for processing; when you quit, `mail`
writes undeleted messages back to this .Ar file.

It Fl I Forces .Nm mail
to run in interactive mode, even when input is not a terminal.
In particular, the special .Ic ~
command character, used when sending mail, is only available interactively.

It Fl i Ignore tty interrupt signals.
This is particularly useful when using .Nm mail
on noisy phone lines.

It Fl N Inhibits initial display of message headers
when reading mail or editing a mail folder.

It Fl n Inhibits reading .Pa /etc/mail.rc
upon startup.

It Fl s Ar subject Specify subject on command line
(only the first argument after the .Fl s
flag is used as a subject; be careful to quote subjects containing spaces).

It Fl u Ar user Equivalent to:

.Pp .Di $ mail -f /var/mail/user
.Pp except that locking is done.

It Fl v Verbose mode.
The details of delivery are displayed on the user's terminal.

.El .Ss Startup actions
At startup time, .Nm mail
will execute commands in the system command file, .Pa /etc/mail.rc,
unless explicitly told not to by using the .Fl n
option.
Next, the commands in the user's personal command file
are executed.

Then examines its command line options to determine whether the user requested a new message to be sent or existing messages in a mailbox to be examined.

To send a message to one or more people,

can be invoked with arguments which are the names of people to whom the mail will be sent. You are then expected to type in your message, followed by a control-D at the beginning of a line.

The section below, describes some features of available to help you compose your letter.

In normal usage, is given no arguments and checks your mail out of the post office, then prints out a one line header of each message found. The current message is initially set to the first message (numbered 1) and can be printed using the command (which can be abbreviated).

Moving among the messages is much like moving between lines in you may use and to shift forwards and backwards, or simply enter a message number to move directly.

After examining a message you can or to it.
Deletion causes the `.Nm mail` program to forget about the message. This is not irreversible; the message can be `.Ic undeleted` by giving its number, or the `.Nm mail` session can be aborted by giving the `.Ic exit` command.

Deleted messages, however, will usually disappear, never to be seen again.

.Ss Specifying messages

Commands such as `.Ic print` and `.Ic delete` can be given a list of message numbers as arguments to apply to a number of messages at once.

Thus

`.Ic delete 1 2` deletes messages 1 and 2, while

`.Ic delete 1-5` deletes messages 1 through 5.

.Pp

Messages may also be selected using one of the following categories:

.Pp

.Bl -tag -width Ds -offset indent -compact

.It *
all messages

.It $
last message

.It :d
deleted messages

.It :n
new messages

.It :o
old messages

.It :r
read messages

.It :u
unread messages

.El

.Pp

Thus the command

`.Ic top` ,

which prints the first few lines of a message,
could be used in
to print the first few lines of all messages.
You can use the
command to
set up a response to a message, sending it back to the
person who it was from.
Text you then type in, up to an end-of-file,
defines the contents of the message.
While you are composing a message,
treats lines beginning with the tilde
character specially.
For instance, typing
(alone on a line) will place a copy
of the current message into the response, right shifting it by a single
line of the message, and allow you to escape to an editor to revise the
message or to a shell to run some commands.
(These options
are given in the summary below.)
You can end a
session with the
command.
Messages which have been examined go to your
file unless they have been deleted, in which case they are discarded.
Unexamined messages go back to the post office (see the
option above).
It is also possible to create personal distribution lists so that,
for instance, you can send mail to
and have it go
to a group of people.
Such lists can be defined by placing a line like
.Pp
.Dl alias cohorts bill ozalp jkf mark kridle@ucbcory
.Pp
in the file
.Pa .mailrc
in your home directory.
The current list of such aliases can be displayed with the
.Ic alias
command in
.Nm mail.
System wide distribution lists can be created by editing
.Pa /etc/mail/aliases
(see
.Xr aliases 5
and
.Xr sendmail 8 );
these are kept in a different syntax.
In mail you send, personal aliases will be expanded in mail sent
to others so that they will be able to
.Ic reply
to the recipients.
System wide aliases
are not expanded when the mail is sent,
but any reply returned to the machine will have the system wide
alias expanded as all mail goes through
.Xr sendmail.
.Xr Network mail (ARPA, UUCP, Berknet)
See
.Xr mailaddr 7
for a description of network addresses.
.Pp
.Nm mail
has a number of options which can be set in the
.Pa .mailrc
file to alter its behavior; thus
.Ic set askcc
enables the
.Ar askcc
feature.
(These options are summarized below.)
.Sh SUMMARY
(Adapted from the
." Mail Reference Manual . )
.Pp
Each command is typed on a line by itself, and may take arguments
following the command word.
The command need not be typed in its
entirety -- the first command which matches the typed prefix is used.
For commands which take message lists as arguments, if no message list is given, then the next message forward which satisfies the command's requirements is used. If there are no messages forward of the current message, the search proceeds backwards, and if there are no good messages at all, 

```
.Nm mail
.types
.Dq 
&No applicable messages
and
aborts the command.
.Bl -tag -width delete
.It Ic -
Print out the preceding message.
If given a numeric argument
.Ar n ,
goes to the
.Ar n Ns th
previous message and prints it.
.It Ic 
&?
Prints a brief summary of commands.
.It Ic 
&!
Executes the shell
(see
.Xr sh 1
and
.Xr csh 1 )
command which follows.
.It Ic alias
.Pq Ic a
With no arguments, prints out all currently defined aliases.
With one argument, prints out that alias.
With more than one argument, creates a new alias or changes an old one.
.It Ic alternates
.Pq Ic alt
The
.Ic alternates
command is useful if you have accounts on several machines.
It can be used to inform
.Nm mail
that the listed addresses are really you.
When you
.Ic reply
to messages,
.Nm mail
will not send a copy of the message to any of the addresses
listed on the
.ic alternates
list.
If the
.ic alternates
command is given with no argument, the current set of alternate
names is displayed.
.ic chdir
Changes the user's working directory to that specified, if given.
If
no directory is given, then changes to the user's login directory.
.ic copy
The
.ic copy
command does the same thing that
.ic save
does, except that it does not mark the messages it
is used on for deletion when you quit.
.ic delete
.Takes a list of messages as argument and marks them all as deleted.
 Deleted messages will not be saved in
.ar mbox ,
nor will they be available for most other commands.
.ic dp
(also
.ic dt )
Deletes the current message and prints the next message.
If there is no next message,
.nm mail
says
.Dq Li "\&No more messages."
.ic edit
.Takes a list of messages and points the text editor at each one in
turn.
On return from the editor, the message is read back in.
.ic exit
.Pf ( ic ex
or
.ic x )
Effects an immediate return to the shell without
modifying the user's system mailbox, his
.ar mbox
file, or his edit file in
command switches to a new mail file or folder. With no arguments, it tells you which file you are currently reading. If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read in the new file. Some special conventions are recognized for the name. # means the previous file, % means your system mailbox, %user means user's system mailbox, & means your .Ar mbox file, and +folder means a file in your folder directory. .It Ic folders List the names of the folders in your folder directory. .It Ic from .Pq Ic f Takes a list of messages and prints their message headers. .It Ic headers .Pq Ic h Lists the current windowful of headers. To view the next or previous group of headers, see the .Ic z command. .It Ic help A synonym for .Ic \&? . .It Ic hold .Pf ( Ic ho , also .Ic preserve ) Takes a message list and marks each message therein to be saved in the user's system mailbox instead of in .Ar mbox . Does not override the .Ic delete
command.

.**It Ic ignore**
Add the list of header fields named to the
.**Ar ignored list**.
Header fields in the ignore list are not printed on your terminal when you print a message.
This command is very handy for suppression of certain machine-generated header fields.

The .**Ic Type**
and
.**Ic Print**
commands can be used to print a message in its entirety, including ignored fields.
If .**Ic ignore**
is executed with no arguments, it lists the current set of ignored fields.

.**It Ic inc**
Incorporate any new messages that have arrived while mail is being read.
The new messages are added to the end of the message list, and the current message is reset to be the first new mail message.
This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

.**It Ic list**
.**Pq Ic l**
List the valid
.**Nm**
commands.

.**It Ic mail**
.**Pq Ic m**
Takes as argument login names and distribution group names and sends mail to those people.

.**It Ic mbox**
Indicate that a list of messages be sent to
.**Ar mbox**
in your home directory when you quit.
This is the default action for messages if you do .**Em not**
have the .**Ic hold**
option set.

.**It Ic more**
.**Pq Ic \&mo**
Takes a message list and invokes the pager on that list.
.It Ic next
.Pq Ic n
(like
.Ic +
or
.Tn CR )
Goes to the next message in sequence and types it.
With an argument list, types the next matching message.
.It Ic preserve
.Pq Ic pre
A synonym for
.Ic hold .
.It Ic Print
.Pq Ic P
Like
.Ic print
but also prints out ignored header fields.
See also
.Ic print ,
.Ic ignore ,
and
.Ic retain .
.It Ic print
.Pq Ic p
Takes a message list and types out each message on the user's terminal.
.It Ic quit
.Pq Ic q
Terminates the session, saving all undeleted, unsaved messages in
the user's
.Ar mbox
file in his login directory, preserving all messages marked with
.Ic hold
or
.Ic preserve
or never referenced
in his system mailbox, and removing all other messages from his system
mailbox.
If new mail has arrived during the session, the message
.Dq Li "You have new mail"
is given.
If given while editing a
mailbox file with the
.Fl f
flag, then the edit file is rewritten.
A return to the shell is
effected, unless the rewrite of edit file fails, in which case the user
can escape with the
.Ic exit
command.
. It Ic Reply
. Pq Ic R
Reply to originator.
Does not reply to other
recipients of the original message.
. It Ic reply
. Pq Ic r
Takes a message list and sends mail to the sender and all
recipients of the specified message.
The default message must not be deleted.
. It Ic respond
A synonym for
. Ic reply .
. It Ic retain
Add the list of header fields named to the
. Ar retained list .
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The
. Ic Type
and
. Ic Print
commands can be used to print a message in its entirety.
If
. Ic retain
is executed with no arguments, it lists the current set of
retained fields.
. It Ic save
. Pq Ic s
Takes a message list and a filename and appends each message in
turn to the end of the file.
The filename in quotes, followed by the line
count and character count is echoed on the user's terminal.
. It Ic saveignore
. Ic saveignore
is to
. Ic save
what
. Ic ignore
is to
. Ic print
and
. Ic type .
Header fields thus marked are filtered out when
saving a message by
. Ic save
or when automatically saving to .Ar mbox .
.Ar Ic saveretain
.Ar Ic saveretain
is to
.Ar Ic save
what
.Ar Ic retain
is to
.Ar Ic print
and
.Ar Ic type .
Header fields thus marked are the only ones saved
with a message when saving by
.Ar Ic save
or when automatically saving to
.Ar mbox .
.Ar Ic saveretain
overrides
.Ar Ic saveignore .
.Ar It Ic set
.Ar Pq Ic se
With no arguments, prints all variable values.
Otherwise, sets
option.
Arguments are of the form
.Ar option=value
(no space before or after =) or
.Ar option .
Quotation marks may be placed around any part of the assignment statement to
quote blanks or tabs, i.e.,
.Ar Ic set indentprefix="->" .
.Ar It Ic shell
.Ar Pq Ic sh
Invokes an interactive version of the shell.
.Ar It Ic size
Takes a message list and prints out the size in characters of each
message.
.Ar It Ic source
The
.Ar Ic source
command reads
commands from a file.
.Ar It Ic top
Takes a message list and prints the top few lines of each.
The number of
lines printed is controlled by the variable
.Ar Ic toplines
and defaults to five.
\texttt{.It Ic Type}
\texttt{.Pq Ic T}
Identical to the
\texttt{.Ic Print}
command.
\texttt{.It Ic type}
\texttt{.Pq Ic t}
A synonym for
\texttt{.Ic print}.
\texttt{.It Ic unalias}
Takes a list of names defined by
\texttt{.Ic alias}
commands and discards the remembered groups of users.
The group names
no longer have any significance.
\texttt{.It Ic undelete}
\texttt{.Pq Ic u}
Takes a message list and marks each message as not being deleted.
\texttt{.It Ic unread}
\texttt{.Pq Ic U}
Takes a message list and marks each message as not having been read.
\texttt{.It Ic unset}
Takes a list of option names and discards their remembered values;
the inverse of
\texttt{.Ic set}.
\texttt{.It Ic visual}
\texttt{.Pq Ic v}
Takes a message list and invokes the display editor on each message.
\texttt{.It Ic write}
\texttt{.Pq Ic w}
Similar to
\texttt{.Ic save},
except that
\texttt{.Ic only}
the message body
(without the header)
is saved.
Extremely useful for such tasks as sending and receiving source
program text over the message system.
\texttt{.It Ic xit}
\texttt{.Pq Ic x}
A synonym for
\texttt{.Ic exit}.
\texttt{.It Ic z}
\texttt{.Nm mail}
presents message headers in windowfuls as described under the
\texttt{.Ic headers}
command.
You can move
Nm mail Ns 's
attention forward to the next window with the
Ic z
command.
Also, you can move to the previous window by using
Ic z- .
El
Ss Tilde/escapes
Here is a summary of the tilde escapes,
which are used when composing messages to perform
special functions.
Tilde escapes are only recognized at the beginning
of lines.
The name
Dq tilde escape
is somewhat of a misnomer since the actual escape character can be set
by the option
Ic escape .
Pp
.Bl -tag -width Ds -compact
It Ic ~b Ns Ar name ...
Add the given names to the list of carbon copy recipients but do not make
the names visible in the Cc: line ("blind" carbon copy).
Pp
It Ic ~c Ns Ar name ...
Add the given names to the list of carbon copy recipients.
Pp
It Ic ~d
Read the file
Pa dead.letter
from your home directory into the message.
Pp
It Ic ~e
Invoke the text editor on the message collected so far.
After the
editing session is finished, you may continue appending text to the
message.
Pp
It Ic ~F Ns Ar messages
Identical to
Ic ~f ,
extcept all message headers are included.
Pp
It Ic ~f Ns Ar messages
Read the named messages into the message being sent.
If no messages are specified, read in the current message.
Message headers currently being ignored (by the
. Ic ignore
or
. Ic retain
command) are not included.
.Pp
. It Ic ~h
Edit the message header fields by typing each one in turn and allowing
the user to append text to the end or modify the field by using the
current terminal erase and kill characters.
.Pp
. It Ic ~M Ns Ar messages
Identical to
. Ic ~m ,
except all message headers are included.
.Pp
. It Ic ~m Ns Ar messages
Read the named messages into the message being sent, indented by a
tab or by the value of
. Va indentprefix .
If no messages are specified,
read the current message.
Message headers currently being ignored (by the
. Ic ignore
or
. Ic retain
command) are not included.
.Pp
. It Ic ~p
Print out the message collected so far, prefaced by the message header
fields.
.Pp
. It Ic ~q
Abort the message being sent, copying the message to
. Pa dead.letter
in your home directory if
. Ic save
is set.
.Pp
. It Ic ~r Ns Ar filename
. It Ic ~< Ns Ar filename
Read the named file into the message.
.Pp
. It Ic ~s Ns Ar string
Cause the named string to become the current subject field.
.Pp
. It Ic ~t Ns Ar name ...
Add the given names to the direct recipient list.
Invoke an alternate editor (defined by the VISUAL option) on the message collected so far. Usually, the alternate editor will be a screen editor. After you quit the editor, you may resume appending text to the end of your message.

Write the message onto the named file.

Abort the message being sent. No message is copied to ~/dead.letter, even if save is set.

Prints a brief summary of tilde escapes.

Execute the indicated shell command, then return to the message.

Pipe the message through the command as a filter. If the command gives no output or terminates abnormally, retain the original text of the message. The command fmt 1 is often used as to rejustify the message. 

Execute the given mail command. Not all commands, however, are allowed.

Insert the string of text in the message prefaced by a single ~. If you have changed the escape character, then you should double
that character in order to send it.

Simulate end of file on input.

.Mail options
Options are controlled via
.set and
.unset commands.
Options may be either binary, in which case it is only
significant to see whether they are set or not; or string, in which
case the actual value is of interest.
The binary options include the following:
.set tag -width append
.add append
Causes messages saved in
.mbox to be appended to the end rather than prepended.
This should always be set (perhaps in
/etc/mail.rc).
.ask , asksub
Causes
.mail to prompt you for the subject of each message you send.
If you respond with simply a newline, no subject field will be sent.
.askbcc
Causes you to be prompted for additional blind carbon copy recipients at the
end of each message.
Responding with a newline indicates your
.satisfaction with the current list.
.askcc
Causes you to be prompted for additional carbon copy recipients at the
end of each message.
Responding with a newline indicates your
.satisfaction with the current list.
.autoinc
Causes new mail to be automatically incorporated when it arrives.
.Setting this is similar to issuing the
.inc command at each prompt, except that the current message is not
reset when new mail arrives.
.autoprint
Causes the
.delete command to behave like
thus, after deleting a message, the next one will be typed automatically.

Setting the binary option

is the same as specifying

on the command line and causes

 to output all sorts of information useful for debugging

The binary option

causes

 to interpret a period alone on a line as the terminator of a message you are sending.

This option is used to hold messages in the system mailbox by default.

Causes interrupt signals from your terminal to be ignored and echoed as @’s.

An option related to is

which makes

 refuse to accept a control-D as the end of a message.

also applies to

command mode.

Setting this option causes

 to truncate your system mailbox instead of deleting it when it’s empty.

Messages saved with the command are not normally saved in

at quit time.
Use this option to retain those messages.

. It Ar metoo
Usually, when a group is expanded that contains the sender, the sender
is removed from the expansion.
Setting this option causes the sender
to be included in the group.

. It Ar noheader
Setting the option
. Ar noheader
is the same as giving the
. Fl N
flag on the command line.

. It Ar nosave
Normally, when you abort a message with two interrupt characters
(usually control-C),

. Nm mail
copies the partial letter to the file
. Pa dead.letter
in your home directory.
Setting the binary option
. Ar nosave
prevents this.

. It Ar quiet
Suppresses the printing of the version when first invoked.

. It Ar Replyall
Reverses the sense of
. Ic reply
and
. Ic Reply
commands.

. It Ar searchheaders
If this option is set, then a message-list specifier in the form

. Dq /x:y
will expand to all messages containing the substring

. Sq y
in the header
field
. Sq x .
The string search is case insensitive.
If

. Sq x
is omitted, it will default to the

. Dq Subject
header field.
The form

. Dq /to:y
is a special case, and will expand
to all messages containing the substring
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in the
.Dq To ,
.Dq Cc
or
.Dq Bcc
header fields.
The check for
.Dq to
is case sensitive, so that
.Dq /To:y
can be used to limit the search for
.Dq y
to just the
.Dq To:
field.
.It Ar skipempty
Don't send messages with an empty body.
.It Ar verbose
Setting the option
.Ar verbose
is the same as using the
.Fl v
flag on the command line.
When
.Nm
runs in verbose mode,
the actual delivery of messages is displayed on the user's
terminal.
.El
.Ss Option string values
.Bl -tag -width Va
.It Ev EDITOR
Pathname of the text editor to use in the
.Ic edit
command and
.Ic -e
escape.
If not defined,
.Pa /usr/bin/ex
is used.
.It Ev LISTER
Pathname of the directory lister to use in the
.Ic folders
command.
Default is
.Pa /bin/ls

.It Ev MBOX
The name of the .Ar mbox file.
It can be the name of a folder.
The default is .Dq Li mbox in the user's home directory.
.Ed Ev PAGER Pathname of the program to use in the .Ic more command or when the .Ar crt variable is set.
The default paginator .Xr more 1 is used if this option is not defined.
A default shell is used if this option is not defined.
.Ed Ev TMPDIR Directory in which temporary files are stored.
If not defined, .Pa /usr/bin/vi is used.
.Ed Ar crt The valued option .Ar crt is used as a threshold to determine how long a message must be before .Ev PAGER is used to read it.
If .Ar crt is set without a value, then the height of the terminal screen stored in the system is used to compute the threshold (see .Xr stty 1 ).
.It Ar escape
If defined, the first character of this option gives the character to
use in the place of ~ to denote escapes.

.It Ar folder
The name of the directory to use for storing folders of
messages.
If this name begins with a
.QI / ,
.Nm mail
considers it to be an absolute pathname; otherwise, the
folder directory is found relative to your home directory.

.It Ar indentprefix
String used by the
.Ic ~m
tilde escape for indenting messages, in place of the normal tab character
.Pq Sq ^I .
Be sure to quote the value if it contains
spaces or tabs.

.It Ar record
If defined, gives the pathname of the file used to record all outgoing
mail.
If not defined, then outgoing mail is not so saved.

.It Ar screen
Size of window of message headers for
.Ic z .

.It Ar sendmail
Pathname to an alternative mail delivery system.

.It Ar toplines
If defined, gives the number of lines of a message to be printed out
with the
.Ic top
command; normally, the first five lines are printed.

.El
.Sh ENVIRONMENT
.Nm mail
utilizes the
.Ev HOME ,
.Ev LOGNAME ,
.Ev MAIL ,
.Ev MAILRC ,
and
.Ev USER
environment variables.
.Pp
If the
.Ev MAIL
environment variable is set, its value is used as the path to the
user's mail spool.
FILES
.Bl -tag -width /usr/share/misc/mail.*help -compact
.It Pa /var/mail/*
post office (unless overridden by the
.Ev MAIL
environment variable)
.It ~/.mailrc
user's old mail
.It ~/.mailrc
file giving initial mail commands; can be overridden by setting the
.Ev MAILRC
environment variable
.It Pa /tmp/R*
temporary files
.It Pa /usr/share/misc/mail.*help
help files
.It Pa /etc/mail.rc
system initialization file
.El
EXIT STATUS
.Ex -std mail
SEE ALSO
.Xr fmt 1,
.Xr lockspool 1,
.Xr vacation 1,
.Xr aliases 5,
.Xr mailaddr 7,
.Xr mail.local 8,
.Xr newaliases 8,
.Xr sendmail 8
STANDARDS
The
.Nm mailx
utility is compliant with the
.St -p1003.1-2008
specification.
.Pp
The flags
.Op Fl bcdEIv
are extensions to that specification.
HISTORY
A
mail command appeared in
.At v3.
This man page is derived from the
.%T "Mail Reference Manual"
originally written by Kurt Shoens.
.Sh BUGS
There are some flags that are not documented here.
Most are
not useful to the general user.
.Pp
Usually, .Nm mail
and
.Nm mailx
are just links to
.Nm Mail, which can be confusing.
"$OpenBSD: maila.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
"$OpenBSD: mail5.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
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This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

Several Mail commands accept a list of messages as an argument. Along with type and delete, described in section 2, there is the from command, which prints the message headers associated with the message list passed to it.

The from command is particularly useful in conjunction with some of the message list features described below.
A "message list" consists of a list of message numbers, ranges, and names, separated by spaces or tabs. Message numbers may be either decimal numbers, which directly specify messages, or one of the special characters
- "^",
- ".",
- or
- "$"
to specify the first relevant, current, or last relevant message, respectively.

Relevant here means, for most commands
- "not deleted"
and
- "deleted"
for the undelete command.

A range of messages consists of two message numbers (of the form described in the previous paragraph) separated by a dash. Thus, to print the first four messages, use

```
(type 1\-4)
```

and to print all the messages from the current message to the last message, use

```
(type \-\$)
```

A name is a user name. The user names given in the message list are collected together and each message selected by other means is checked to make sure it was sent by one of the named users. If the message consists entirely of user names, then every message sent by one of those users that is relevant (in the sense described earlier) is selected. Thus, to print every message sent to you by

```
(type root
    (type root)
As a shorthand notation, you can specify simply

$q *$

to get every

.i relevant

(same sense)

message. Thus,

$l$

.type *

$l$

prints all undeleted messages,

$l$

.delete *

$l$

deletes all undeleted messages, and

$l$

.undelete *

$l$

undeletes all deleted messages.

$pp$

You can search for the presence of a word in subject lines with

$b / .$

For example, to print the headers of all messages that contain the

$q PASCAL,$

do:

$l$

.from /pascal

$l$

Note that subject searching ignores upper/lower case differences.

$sh 2 "List of commands"$

$pp$

This section describes all the

.i Mail

commands available when

receiving mail.

.ip "$\text{ifB}\backslash mP\"$

The

.rb \-

command goes to the previous message and prints it. The

.rb \-

command may be given a decimal number

.i n

as an argument, in which case the

.i n th

previous message is gone to and printed.

.ip "$\text{ifB}\backslash mP\"$
Prints a brief summary of commands.

.ip "\fB\!P\ "

Used to preface a command to be executed by the shell.

.ip "\fBPrint\P\ "

Like

.b print ,

but also print out ignored header fields. See also \fBPrint\P, \fBignore\P, and \fBretain\P.

\fBPrint\P can be abbreviated to \fBP\P.

.ip "\fBReply\P or \fBRrespond\P\ "

Note the capital \fB\P in the name.

Frame a reply to one or more messages.
The reply (or replies if you are using this on multiple messages) will be sent ONLY to the person who sent you the message (respectively, the set of people who sent the messages you are replying to).

You can

add people using the \fB~t\P, \fB~c\P, and \fB~b\P

tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with

.q "Re:"

unless it already began thus.

If the original message included a

.q "reply-to"

header field, the reply will go

.i only
to the recipient named by

.q "reply-to."

You type in your message using the same conventions available to you through the

.b mail

case. 

The

.b Reply

command is especially useful for replying to messages that were sent to enormous distribution groups when you really just want to send a message to the originator. Use it often.

\fBReply\P (and \fBRrespond\P) can be abbreviated to \fBR\P.

.ip "\fBType\P\ "

Identical to the

.b Print

case. 

\fBType\P can be abbreviated to \fBT\P.

.ip "\fBalias\P\ "

Define a name to stand for a set of other names.

This is used when you want to send messages to a certain group of people and want to avoid retyping their names.

For example
alias project john sue willie Kathryn

creates an alias

which expands to the four people John, Sue, Willie, and Kathryn.
If no arguments are given, all currently-defined aliases are printed.
If one argument is given, that alias is printed (if it exists).

Alias can be abbreviated to a.

ip "alternates" 

If you have accounts on several machines, you may find it convenient
to use /etc/mail/aliases on all the machines except one to direct
your mail to a single account.
The

 alternates
command is used to inform

Mail

that each of these other addresses is really

you.

Alternates
takes a list of user names and remembers that they are all actually you.
When you

given no argument, it lists the current set of alternate names.

Alternates
is usually used in the .mailrc file.

Alternates can be abbreviated to alt.

ip "chdir" 

The

cdir
command allows you to change your current directory.

Chdir
takes a single argument, which is taken to be the pathname of
the directory to change to. If no argument is given,

cdir
changes to your home directory.

Chdir can be abbreviated to c.

ip "copy" 

The

copy
command does the same thing that

c save
does, except that it does not mark the messages it is used on for deletion when you quit.
\texttt{\textbf{BCopy}} can be abbreviated to \texttt{\textbf{Bco}}.

\texttt{\textbf{delete \ } \textbf{}}
Deletes a list of messages. Deleted messages can be reclaimed
with the
\texttt{\textbf{undelete}}
command.
\texttt{\textbf{Delete}} can be abbreviated to \texttt{\textbf{d}}.

\texttt{\textbf{dp} or \textbf{dt} \ }
These commands delete the current message and print the next message.
They are useful for quickly reading and disposing of mail.
If there is no next message, \texttt{\textbf{Mail}} says \texttt{``No more messages.''}
\texttt{\textbf{edit} \ }
To edit individual messages using the text editor, the
\texttt{\textbf{edit}}
command is provided. The
\texttt{\textbf{edit}}
command takes a list of messages as described under the
\texttt{\textbf{type}}
command and processes each by writing it into the file
\texttt{Message\c}
where \texttt{\c} is the message number being edited and executing the text editor on it.
When you have edited the message to your satisfaction, write the message out and quit, upon which
\texttt{\textbf{Mail}}
will read the message back and remove the file.
\texttt{\textbf{Edit}}
can be abbreviated to
\texttt{\textbf{e}}.

\texttt{\textbf{else} \ }
Marks the end of the then-part of an
\texttt{\textbf{if}}
statement and the beginning of the
part to take effect if the condition of the
\texttt{\textbf{if}}
statement is false.

\texttt{\textbf{endif} \ }
Marks the end of an
\texttt{\textbf{if}}
statement.
\texttt{\textbf{exit} or \textbf{xit} \ }
Leave
\texttt{\textbf{Mail}}
without updating the system mailbox or the file you were reading. Thus, if you accidentally delete several messages, you can use
.b exit
to avoid scrambling your mailbox.
\fBExit\fP can be abbreviated to \fBex\fP or \fBx\fP.
.ip "\fBfile\fP\ "
The same as
.b folder.
\fBFile\fP can be abbreviated to \fBfi\fP.
.ip "\fBfolders\fP\ "
List the names of the folders in your folder directory.
.ip "\fBfolder\fP\ "
The
.b folder
command switches to a new mail file or folder. With no arguments, it tells you which file you are currently reading. If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read the new file. Some special conventions are recognized for the name:

<table>
<thead>
<tr>
<th>Name</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>_</td>
<td>Previous file read</td>
</tr>
<tr>
<td>%</td>
<td>Your system mailbox</td>
</tr>
<tr>
<td>%name\fIName\fP's system mailbox</td>
<td></td>
</tr>
<tr>
<td>&amp;</td>
<td>Your ~/mbox file</td>
</tr>
<tr>
<td>+folder</td>
<td>A file in your folder directory</td>
</tr>
<tr>
<td>.TE</td>
<td></td>
</tr>
<tr>
<td>.b</td>
<td></td>
</tr>
<tr>
<td>\fBFolder\fP can be abbreviated to \fBfo\fP.</td>
<td></td>
</tr>
<tr>
<td>.ip &quot;\fBfrom\fP\ &quot;</td>
<td>The</td>
</tr>
<tr>
<td>.b from</td>
<td>command takes a list of messages and prints out the header lines for each one; hence</td>
</tr>
<tr>
<td>.(l</td>
<td>from joe</td>
</tr>
<tr>
<td>.l</td>
<td>is the easy way to display all the message headers from \fI(qljoe\fR</td>
</tr>
<tr>
<td>\fBFrom\fP can be abbreviated to \fBfr\fP.</td>
<td></td>
</tr>
<tr>
<td>.ip &quot;\fBheaders\fP\ &quot;</td>
<td>When you start up</td>
</tr>
<tr>
<td>.i Mail</td>
<td>to read your mail, it lists the message headers that you have.</td>
</tr>
</tbody>
</table>
These headers tell you who each message is from, when they were received, how many lines and characters each message is, and the "Subject:" header field of each message, if present. In addition, 
Mail tags the message header of each message that has been the object of the 
preserve command with a 
P. Messages that have been 
saved or 
written are flagged with a 
*. Finally, 
deleted messages are not printed at all. If you wish to reprint the current list of message headers, you can do so with the 
headers command. The 
headers command (and thus the initial header listing) only lists the first so many message headers. The number of headers listed depends on the speed of your terminal. 
Mail maintains a notion of the current window into your messages for the purposes of printing headers. Use the 
z command to move forward a window, and 
z- to move back a window. You can move 
Mail's notion of the current window directly to a particular message by using, for example, 
headers 40 
)l 
)l to move 
Mail's attention to the messages around message 40. Headers can be abbreviated to H.

---

Open Source Used In Tetratlon 3.5.1 28051
Print a brief and usually out of date help message about the commands in `mail`

The `man` page for `mail` is usually more up-to-date than either the help message or this manual. It is also a synonym for `?`.

Arrange to hold a list of messages in the system mailbox, instead of moving them to the file `mbox` in your home directory. If you set the binary option `hold`, this will happen by default. It does not override the `delete` command.

`hold` can be abbreviated to `ho`.

Commands in your `.mailrc` file can be executed conditionally depending on whether you are sending or receiving mail with the `if` command. For example, you can do:

```
if receive
commands...
endif
```

An `else` form is also available:

```
if send
commands...
else
commands...
endif
```

Note that the only allowed conditions are `receive` and `send`. `Ignore`
has been superseded by
.i retain .
.br
Add the list of header fields named to the
.i "ignore list" .
Header fields in the ignore list are not printed on your
terminal when you print a message. This allows you to suppress
printing of certain machine-generated header fields, such as
.i Via
which are not usually of interest. The
.b Type
and
.b Print
commands can be used to print a message in its entirety, including
ignored fields.
If
.b ignore
is executed with no arguments, it lists the current set of ignored fields.
.ip "$\{ignore\} "$  
Incorporate any new messages that have arrived while mail is being read.
The new messages are added to the end of the message list,
and the current message is reset to be the first new mail message.
This does not renumber the existing message list, nor does it
cause any changes made so far to be saved.
.ip "$\{list\} "$  
List the valid
.i Mail
commands.
\fBList\fP can be abbreviated to \fB\fP.
.. .ip \fBLocal\fP
.. Define a list of local names for this host. This command is useful
.. when the host is known by more than one name. Names in the list
.. may be qualified be the domain of the host. The first name on the local
.. list is the
.. .i distinguished
.. name of the host.
.. The names on the local list are used by
.. .i Mail
.. to decide which addresses are local to the host.
.. For example:
.. .l
.. local ucbarp.BERKELEY.ARPA arpa.BERKELEY.ARPA \n.. arpavax.BERKELEY.ARPA r.BERKELEY.ARPA \n.. ucb-arpa.ARPA
.. )l
.. From this list we see that
.. .i "fred@ucbarpa.BERKELEY.ARPA",
.. .i "harold@arpa.BERKELEY".
.. and
.. i "larry@r"
.. are all addresses of users on the local host.
.. The
.. b local
.. command is usually not used by general users since it is designed for
.. local configuration; it is usually found in the file /usr/lib/Mail.rc.
.. Send mail to one or more people. If you have the
.. i ask
.. Mail
.. option set,
.. i Mail
.. will prompt you for a subject to your message. Then you
can type in your message, using tilde escapes as described in
section 4 to edit, print, or modify your message. To signal your
satisfaction with the message and send it, type <Control-D> at the
beginning of a line, or a . alone on a line if you set the option
.. i dot.
.. To abort the message, type two interrupt characters (Control-C
.. by default) in a row or use the
.. b ~q
.. or
.. b ~x
.. escapes.
.. The \fBmail\fP command can be abbreviated to \fBm\fP.
.. Indicate that a list of messages be sent to
.. i mbox
.. in your home directory when you quit. This is the default
.. action for messages if you do
.. i not
.. have the
.. i hold
.. option set.
.. Takes a message list and invokes the pager on that list.
.. The
.. b next
.. command goes to the next message and types it. If given a message list,
.. b next
goes to the first such message and types it. Thus,
..(l
.. next root
..)l
goes to the next message sent by
.. q root
.. and types it. The
command can be abbreviated to simply a newline, which means that one can go to and type a message by simply giving its message number or one of the magic characters

\q "\^" \\
\q "." \\
or \\
\q "\$".

Thus,

\l &. \\
\l 4 \\
\l prints the current message and

\l 4 \\
\l prints message 4, as described previously.

\fBNext\fP can be abbreviated to \fBn\fP.

\fBPreserve\fP can be abbreviated to \fBpre\fP.

\fBPrint\fP prints the specified messages. If the

\fBcrt\fP variable is set, messages longer than the number of lines it indicates are paged through the command specified by the \fBPAGER\fP variable.

The \fBprint\fP command can be abbreviated to \fBp\fP.

\fBQuit\fP can be abbreviated to \fBq\fP.

\fBReply\fP or \fBrespond\fP frame a reply to a single message.

The reply will be sent to the person who sent you the message (to which you are replying), plus all the people who received the original message, except you. You can
add people using the \fB~t\fP, \fB~c\fP, and \fB~b\fP tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with
.q "Re:"
unless it already began thus.
If the original message included a
.q "reply-to"
header field, the reply will go
.i only
to the recipient named by
.q "reply-to."
You type in your message using the same conventions available to you through the
.b mail
command.
The \fBreply\fP (and \fBrespond\fP) command can be abbreviated to \fBr\fP.
.ip "ifBretain\fP\ "
Add the list of header fields named to the \fIretain list\fP.
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The
.b Type
and
.b Print
commands can be used to print a message in its entirety.
If
.b retain
is executed with no arguments, it lists the current set of
retained fields.
.ip "ifBsave\fP\ "
It is often useful to be able to save messages on related topics
in a file. The
.b save
command gives you the ability to do this. The
.b save
command takes as an argument a list of message numbers, followed by
the name of the file in which to save the messages. The messages
are appended to the named file, thus allowing one to keep several
messages in the file, stored in the order they were put there.
The filename in quotes, followed by the line
count and character count is echoed on the user's terminal.
An example of the
.b save
command relative to our running example is:
.(l
s 1 2 tuitionmail
)l
Saved messages are not automatically saved in .inbox at quit time, nor are they selected by the .next command described above, unless explicitly specified. \BSave\ can be abbreviated to \B\.

\Bsaveignore\ is to \Bsave\ what \Bignore\ is to \Bprint\ and \Btype\.

Header fields thus marked are filtered out when saving a message by \Bsave\ or when automatically saving to \Imbox\.

\Bsaveretain\ is to \Bsave\ what \Bretain\ is to \Bprint\ and \Btype\.

Header fields thus marked are the only ones saved with a message when saving by \Bsave\ or when automatically saving to \Imbox\.

\Bsaveretain\ overrides \Bsaveignore\.

Set an option or give an option a value. Used to customize .Mail. Section 5.3 contains a list of the options. Options can be .binary, in which case they are .on or .off, or .valued.

To set a binary option .option .on, do .(l set option )l

To give the valued option .option the value .value, do .(l set option=value )l

There must be no space before or after the ``=`` sign.

If no arguments are given, all variable values are printed.
Several options can be specified in a single .set
command.
\fBSet\fP can be abbreviated to \fBse\fP.
students \fBshell\fP \ "
The \b shell
command allows you to
escape to the shell.
\b Shell
invokes an interactive shell and allows you to type commands to it.
When you leave the shell, you will return to
\i Mail .
The shell used is a default assumed by
\i Mail ;
you can override this default by setting the valued option
\q SHELL,
eg:
\(l
\$set SHELL=/bin/csh
\)l
\fBShell\fP can be abbreviated to \fBsh\fP.
\ip \"\fBsize\fP\ "
Takes a message list and prints out the size in characters of each
message.
\ip \"\fBsource\fP\ "
The \b source
command reads
\i mail
commands from a file. It is useful when you are trying to fix your
\q .mailrc
file and you need to re-read it.
\fBSource\fP can be abbreviated to \fBso\fP.
\ip \"\fBtop\fP\ "
The \b top
command takes a message list and prints the first five lines
of each addressed message.
If you wish, you can change the number of lines that
\b top
prints out by setting the valued option
\q "toplines."
On a CRT terminal,
\(l
\$set toplines=10
\)l
might be preferred.
\fBTop\fP can be abbreviated to \fBto\fP.
\ip \"\fBtype\fP\ "
Same as `\Bprint\BP`.
Takes a message list and types out each message on the terminal.
The \Btype\BP command can be abbreviated to `\Bt\BP`.
\ip "\Bunalias\BP \"
Takes a list of names defined by \Balias\BP commands and
discards the remembered groups of users.
The group names no longer have any significance.
\ip "\Bundelete\BP \"
Takes a message list and marks each message as `\Bnot\BP`
being deleted.
\Bundelete\BP can be abbreviated to `\Bu\BP`.
\ip "\Bunread\BP \"
Takes a message list and marks each message as
`\Bnot`
having been read.
\Bunread\BP can be abbreviated to `\BU\BP`.
\ip "\Bunset\BP \"
Takes a list of option names and discards their remembered values;
the inverse of `\Bset\BP`.
\ip "\Bvisual\BP \"
It is often useful to be able to invoke one of two editors,
based on the type of terminal one is using. To invoke
a display oriented editor, you can use the
\b visual
command. The operation of the
\b visual
command is otherwise identical to that of the
\b edit
command.
\ne 2v+\at(psu
\sp \at(psu
Both the
\b edit
and
\b visual
commands assume some default text editors.
The default for
\q EDITOR
is
\i /usr/bin/ex .
The default for
\q VISUAL
is
\i /usr/bin/vi .
These default editors can be overridden by the valued options
\q EDITOR
and
\q VISUAL
for the standard and screen editors. You might want to do:

```
set EDITOR=/bin/ed VISUAL=/usr/bin/mg
```

\fBVisual\fP can be abbreviated to \fBv\fP.

```
.ip "dfBwrite\fP\"
```

The

\b save
command always writes the entire message, including the headers, into the file. If you want to write just the message itself, you can use the

\b write
command. The

\b write
command has the same syntax as the

\b save
command, and can be abbreviated to simply

\b w .

Thus, we could write the second message by doing:

```
.w 2 file.c
```

As suggested by this example, the

\b write
command is useful for such tasks as sending and receiving source program text over the message system.

The filename in quotes, followed by additional file information, is echoed on the user's terminal.

```
.ip "dfBz\fP\"
```

\i Mail
presents message headers in windowfuls as described under

\b headers
command. You can move

\i Mail's
attention forward to the next window by giving the

```
+z+
```

command. Analogously, you can move to the previous window with:

```
+z-
```

Throughout this manual, we have seen examples of binary and valued options. This section describes each of the options in alphabetical order, including
some that you have not seen yet.
To avoid confusion, please note that the options are either
all lower case letters or all upper case letters. When I start a sentence
such as:
.q "Ask"
causes
.i Mail
to prompt you for a subject header,
I am only capitalizing
.q ask
as a courtesy to English.
.ip "fBEDITOR\fP\ "
The valued option
.q EDITOR
defines the pathname of the text editor to be used in the
.b edit
command and ~e escape.
If not defined,
.i /usr/bin/ex
is used.
.ip "fBLISTER\fP\ "
Pathname of the directory lister to use in the \fBfolders\fP command.
Default is \fI/bin/ls\fP.
.ip "fBMBOX\fP\ "
The name of the \fImbox\fP file.
It can be the name of a folder.
The default is `"mbox" in the user's home directory.
.ip "fBPAGER\fP\ "
Pathname of the program to use for paginating output when
it exceeds \fIcrt\fP lines.
A default paginator is used if this option is not defined.
.ip "fBSHELL\fP\ "
The valued option
.q SHELL
gives the path name of your shell. This shell is used for the
.b !
command and ~! escape. In addition, this shell expands
file names with shell metacharacters like * and ? in them.
.ip "fBVISUAL\fP\ "
The valued option
.q VISUAL
defines the pathname of the screen editor to be used in the
.b visual
command
and ~v escape.
If not defined,
.i /usr/bin/vi
is used.
The `append` option is binary and causes messages saved in `mbox` to be appended to the end rather than prepended. Normally, `Mail` will put messages in `mbox` in the same order that the system puts messages in your system mailbox. By setting `append`, you are requesting that `mbox` be appended to regardless. It is in any event quicker to append.

`Ask` is a binary option which causes `Mail` to prompt you for the subject of each message you send. If you respond with simply a newline, no subject field will be sent. `Askbcc` is a binary option which causes you to be prompted for additional blind carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list. `Askcc` is a binary option which causes you to be prompted for additional carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list. Causes new mail to be automatically incorporated when it arrives. Setting this is similar to issuing the `inc` command at each prompt, except that the current message is not reset when new mail arrives. `Autoprint` is a binary option which causes the `delete` command to behave like `dp` thus, after deleting a message, the next one will be typed automatically. This is useful when quickly scanning and deleting messages in your mailbox.
The valued option `.crt` is used as a threshold to determine how long a message must be before `.b PAGER` is used to read it.

The binary option `.q debug` causes debugging information to be displayed. Use of this option is the same as using the `-d` command line flag.

The binary option `.q Dot` is a binary option which, if set, causes `.i Mail` to interpret a period alone on a line as the terminator of the message you are sending.

To allow you to change the escape character used when sending mail, you can set the valued option `.q escape`. Only the first character of the `.q escape` option is used, and it must be doubled if it is to appear as the first character of a line of your message. If you change your escape character, then `~` loses all its special meaning, and need no longer be doubled at the beginning of a line.

The name of the directory to use for storing folders of messages. If this name begins with a `/` `.i Mail` considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

The binary option `.q hold` causes messages that have been read but not manually dealt with to be held in the system mailbox. This prevents such messages from being automatically swept into your `\imbox` file.

The binary option `.q ignore` causes `<Control-C>` characters from your terminal to be ignored and echoed as `@`’s while you are sending mail. `<Control-C>` characters retain their original meaning in `.i Mail` command mode.

Setting the
An option related to `.` dot is `.q ignoreeof`, which makes `.` Mail refuse to accept a `<Control-D>` as the end of a message. `.q Ignoreeof` also applies to `.i Mail command mode.

String used by the `\fB~m\fP` tilde escape for indenting messages, in place of the normal tab character (`^I`). Be sure to quote the value if it contains spaces or tabs.

The `.q keep` option causes `.` Mail to truncate your system mailbox instead of deleting it when it is empty. This is useful if you elect to protect your mailbox, which you would do with the shell command:

```sh
chmod 600 /var/mail/yourname
```

where `.i yourname is your login name. If you do not do this, anyone can probably read your mail, although people usually don’t.

When you `.b save` a message, `.i Mail usually discards it when you `.b quit`. To retain all saved messages, set the `.q keepsave` option.

When sending mail to an alias,
makes sure that if you are included in the alias, that mail will not be sent to you. This is useful if a single alias is being used by all members of the group. If however, you wish to receive a copy of all the messages you send to the alias, you can set the binary option .q metoo.

The binary option .q noheader suppresses the printing of the version and headers when .i Mail is first invoked. Setting this option is the same as using .b \-N on the command line.

Normally, when you abort a message with two <Control-C>'s, .i Mail copies the partial letter to the file .q dead.letter in your home directory. Setting the binary option .q nosave prevents this.

Reverses the sense of .i reply and .i Reply commands.

The binary option .q quiet suppresses the printing of the version when .i Mail is first invoked, as well as printing the for example .q "Message 4:" from the .b type command.

If you love to keep records, then the valued option .q record can be set to the name of a file to save your outgoing mail. Each new message you send is appended to the end of the file.

When .i Mail
initially prints the message headers, it determines the number to print by looking at the speed of your terminal. The faster your terminal, the more it prints.

The valued option `screen` overrides this calculation and specifies how many message headers you want printed. This number is also used for scrolling with the `z` command.

```
SEARCHHEADERS
```
If this option is set, then a message-list specifier in the form `''X:y''` will expand to all messages containing the substring `y` in the header field `X`.

The string search is case insensitive.

If `X` is omitted, it will default to the `Subject` header field.

The form `''/to:y''` is a special case, and will expand to all messages containing the substring `y` in the `To`, `Cc`, or `Bcc` header fields.

The check for `to` is case sensitive, so that `''/to:y''` can be used to limit the search for `y` to just the `To:` field.

```
SENDMAIL
```
To use an alternate mail delivery system, set the `sendmail` option to the full pathname of the program to use. Note: this is not for everyone! Most people should use the default delivery system.

```
TOPLINES
```
The valued option `toplines` defines the number of lines that the `top` command will print out instead of the default five lines.

```
VERBOSE
```
The binary option "verbose" causes `mail` to invoke sendmail with the `-v` flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking `mail` with the `-v` flag as described in section 6.

set append dot save asksub ignore Received Message-Id Resent-Message-Id Status Mail-From Return-Path Via

"OpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp "$
This section contains the definitions of a few phrases peculiar to **Mail**.

- **alias**
  An alternative name for a person or list of people.

- **flag**
  An option, given on the command line of **Mail**, prefaced with a `-`. For example,
  ```
  \bf \text{-f} \n  ```
  is a flag.

- **header field**
  At the beginning of a message, a line which contains information that is part of the structure of the message. Popular header fields include
  ```
  \bf \text{to}  \\
  \bf \text{cc}  \\
  ```
A collection of messages. Often used in the phrase, "Have you read your mail?"

The place where your mail is stored, typically in the directory /var/mail.

A single letter from someone, initially stored in your mailbox.

A string used in command mode to describe a sequence of messages.

A piece of special purpose information used to tailor Mail to your taste.

Options are specified with the set command.

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This section describes command line options for Mail and what they are used for.

```
@(-b list
   Send blind carbon copies to list.
@(-c list
   Send carbon copies to list of users. List should be a comma separated list of names.
@(-f file
   Show the messages in file instead of your system mailbox. If file is omitted,
   Mail
```
reads
.i mbox
in your home directory.
.ip \-I
Forces mail to run in interactive mode,
even when input is not a terminal.
In particular, the special \fB~\fP command character,
used when sending mail, is only available interactively.
.ip \-i
Ignore tty interrupt signals.
This is particularly useful when using mail on noisy phone lines.
.ip \-N
Suppress the initial printing of headers.
.ip \-n
Inhibit reading of /etc/mail.rc upon startup.
.ip \"\-s string\"
Used for sending mail.
.i String
is used as the subject of the message being composed. If
.i string
contains blanks, you must surround it with quote marks.
.ip \"\-u name\"
Read
.i names's
mail instead of your own. Unwitting others often neglect to protect
their mailboxes, but discretion is advised. Essentially,
.b \"\-u user\"
is a shorthand way of doing
.b \"\-f /var/mail/user\".
.ip \"\-v\"
Use the
.b \-v
flag when invoking sendmail. This feature may also be enabled
by setting the option "verbose".
.pp
The following command line flags are also recognized, but are
intended for use by programs invoking
.i Mail
and not for people.
.ip \-d
Turn on debugging information. Not of general interest.
.ip \"\-T file\"
Arrange to print on
.i file
the contents of the
.i article-id
fields of all messages that were either read or deleted.
.b \-T
is for the
.i readnews
program and should NOT be used for reading your mail.
"OpenBSD: mail9.nr,v 1.8 2009/07/29 18:15:38 martynas Exp $"
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\n"@(#)mail9.nr 8.2 (Berkeley) 5/16/94"
.sh 1 "Summary of commands, options, and escapes"
.pp
This section gives a quick summary of the
.i Mail
commands, binary and valued options, and tilde escapes.
.pp
The following table describes the commands:
.TS
center ;
c c i
lb l.
CommandDescription
_ +Same as \fBnext\fP
- Back up to previous message
? Print brief summary of \IMail\ commands
! Single command escape to shell
Print
Type message with ignored fields
Reply
Reply to author of message only
Respond
Same as \BReply\P
Type
Type message with ignored fields
alias
Define an alias as a set of user names
alternates
List other names you are known by
chdir
Change working directory, home by default
copy
Copy a message to a file or folder
delete
Delete a list of messages
dp
Same as \Bdt\P
dt
Delete current message, type next message
edit
Edit a list of messages
else
Start of else part of conditional; see \Bif\P
endif
End of conditional statement; see \Bif\P
exit
Leave mail without changing anything
file
Interrogate/change current mail file
folders
List the folders in your folder directory
from
List headers of a list of messages
headers
List current window of messages
help
Same as \B?\P
hold
Same as \Bpreserve\P
if
Conditional execution of \IMail\ commands
ignore
Set/examine list of ignored header fields
inc
Incorporate new messages
list
List valid \IMail\ commands
mail
Send mail to specified names
mbox
Arrange to save a list of messages in \Imbox\P
more
Invoke pager on message list
next
Go to next message and type it
preserve
Arrange to leave list of messages in system mailbox
print
Print messages
quit
Leave \IMail\P; update system mailbox, \Imbox\P as appropriate
reply
Compose a reply to a message
respond
Same as \Breply\P
retain
Supersedes \Bignore\P
save
Append messages, headers included, on a file
saveignore
List of headers to ignore when using the \Bsave\P command
saveretain
List of headers to retain when using the \Bsave\P command
set
Set binary or valued options
shell
Invoke an interactive shell
size
Prints out size of message list
source
Read \IMail\P commands from a file
top
Print first so many (5 by default) lines of list of messages
type
Same as \Bprint\P
The following table describes the options. Each option is shown as being either a binary or valued option.

<table>
<thead>
<tr>
<th>Option</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDITOR</td>
<td>valued</td>
<td>Pathname of editor for ~e and \Bedit\P</td>
</tr>
<tr>
<td>LISTER</td>
<td>valued</td>
<td>Pathname of directory lister</td>
</tr>
<tr>
<td>MBOX</td>
<td>valued</td>
<td>Pathname of the \Imbox\P file</td>
</tr>
<tr>
<td>PAGER</td>
<td>valued</td>
<td>Pathname of pager for \BPrint\P, \Bprint\P, \BType\P and \Btype\P</td>
</tr>
<tr>
<td>SHELL</td>
<td>valued</td>
<td>Pathname of shell for \Bshell\P, ~! and \B\P</td>
</tr>
<tr>
<td>VISUAL</td>
<td>valued</td>
<td>Pathname of screen editor for ~v, \Bvisual\P</td>
</tr>
<tr>
<td>append</td>
<td>binary</td>
<td>Always append messages to end of \Imbox\P</td>
</tr>
<tr>
<td>ask</td>
<td>binary</td>
<td>Prompt user for Subject: field when sending</td>
</tr>
<tr>
<td>askbcc</td>
<td>binary</td>
<td>Prompt user for additional BCc's at end of message</td>
</tr>
<tr>
<td>askcc</td>
<td>binary</td>
<td>Prompt user for additional Cc's at end of message</td>
</tr>
<tr>
<td>autoinc</td>
<td>binary</td>
<td>Automatically incorporate new mail</td>
</tr>
<tr>
<td>autoprint</td>
<td>binary</td>
<td>Print next message after \Bdelete\P</td>
</tr>
<tr>
<td>crt</td>
<td>valued</td>
<td>Minimum number of lines before using \BPAGER\P</td>
</tr>
<tr>
<td>debug</td>
<td>binary</td>
<td>Print out debugging information</td>
</tr>
<tr>
<td>dot</td>
<td>binary</td>
<td>Accept . alone on line to terminate message input</td>
</tr>
<tr>
<td>escape</td>
<td>valued</td>
<td>Escape character to be used instead of ~</td>
</tr>
<tr>
<td>folder</td>
<td>valued</td>
<td>Directory to store folders in</td>
</tr>
<tr>
<td>hold</td>
<td>binary</td>
<td>Hold messages in system mailbox by default</td>
</tr>
<tr>
<td>ignore</td>
<td>binary</td>
<td>Ignore &lt;Control-C&gt; while sending mail</td>
</tr>
<tr>
<td>ignorebuf</td>
<td>binary</td>
<td>Don't terminate letters/command input with \B^D\P</td>
</tr>
<tr>
<td>indent</td>
<td>valued</td>
<td>String used for indenting messages</td>
</tr>
<tr>
<td>keep</td>
<td>binary</td>
<td>Don't unlink system mailbox when empty</td>
</tr>
<tr>
<td>keepsave</td>
<td>binary</td>
<td>Don't delete \Bsave\P messages by default</td>
</tr>
<tr>
<td>metoo</td>
<td>binary</td>
<td>Include sending user in aliases</td>
</tr>
<tr>
<td>noheader</td>
<td>binary</td>
<td>Suppress initial printing of version and headers</td>
</tr>
<tr>
<td>nosave</td>
<td>binary</td>
<td>Don't save partial letter in \Idead.letter\P</td>
</tr>
<tr>
<td>Replyall</td>
<td>binary</td>
<td>Reverses the sense of the \B[Rr]eply\P commands</td>
</tr>
<tr>
<td>quiet</td>
<td>binary</td>
<td>Suppress printing of \IMail\P version/message numbers</td>
</tr>
<tr>
<td>record</td>
<td>valued</td>
<td>File to save all outgoing mail in</td>
</tr>
</tbody>
</table>
screen valued size of window of message headers for \fBz\fP, etc.
sendmail valued choose alternate mail delivery system
toplines valued number of lines to print in \fBtop\fP
verbose binary invoke sendmail with the \fB-v\fP flag

The following table summarizes the tilde escapes available while sending mail.

<table>
<thead>
<tr>
<th>Escape</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>~b</td>
<td>name ...</td>
<td>Add names to &quot;blind&quot; Cc: list.</td>
</tr>
<tr>
<td>~c</td>
<td>name ...</td>
<td>Add names to Cc: field.</td>
</tr>
<tr>
<td>~d</td>
<td></td>
<td>Read \fIdead.letter\fP into message.</td>
</tr>
<tr>
<td>~e</td>
<td></td>
<td>Invoke text editor on partial message.</td>
</tr>
<tr>
<td>~F</td>
<td>messages</td>
<td>Same as ~f, but includes all headers.</td>
</tr>
<tr>
<td>~f</td>
<td>messages</td>
<td>Read in messages.</td>
</tr>
<tr>
<td>~h</td>
<td></td>
<td>Edit the header fields.</td>
</tr>
<tr>
<td>~M</td>
<td>messages</td>
<td>Same as ~m, but includes all headers.</td>
</tr>
<tr>
<td>~m</td>
<td>messages</td>
<td>Read in messages, right shifted by a tab.</td>
</tr>
<tr>
<td>~p</td>
<td></td>
<td>Print (show) the message buffer.</td>
</tr>
<tr>
<td>~q</td>
<td></td>
<td>Abort message; optionally save copy to ~/dead.letter.</td>
</tr>
<tr>
<td>~r</td>
<td>file</td>
<td>Read a file into the message buffer.</td>
</tr>
<tr>
<td>~s</td>
<td>string</td>
<td>Set Subject: field to \fIstring\fP.</td>
</tr>
<tr>
<td>~t</td>
<td>name ...</td>
<td>Add names to To: field.</td>
</tr>
<tr>
<td>~v</td>
<td></td>
<td>Invoke display editor on message.</td>
</tr>
<tr>
<td>~w</td>
<td>filename</td>
<td>Write message to file.</td>
</tr>
<tr>
<td>~x</td>
<td></td>
<td>Abort message; no copy is saved.</td>
</tr>
<tr>
<td>~?</td>
<td></td>
<td>Print a brief summary of tilde escapes.</td>
</tr>
<tr>
<td>~!</td>
<td>command</td>
<td>Execute shell command.</td>
</tr>
<tr>
<td>~</td>
<td></td>
<td>command</td>
</tr>
<tr>
<td>~:</td>
<td>command</td>
<td>Execute a \fIMail\fP command.</td>
</tr>
<tr>
<td>~~~</td>
<td>string</td>
<td>Quote a single tilde.</td>
</tr>
<tr>
<td>.</td>
<td></td>
<td>Simulate end of file on input.</td>
</tr>
</tbody>
</table>

The following table shows the command line flags that \i Mail accepts:
<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-b</td>
<td>Send blind carbon copies to</td>
</tr>
<tr>
<td>-c</td>
<td>Send carbon copies to</td>
</tr>
<tr>
<td>-d</td>
<td>Turn on debugging</td>
</tr>
<tr>
<td>-f</td>
<td>Show messages in</td>
</tr>
<tr>
<td>-I</td>
<td>Force Mail to run in interactive mode</td>
</tr>
<tr>
<td>-i</td>
<td>Ignore tty interrupt signals</td>
</tr>
<tr>
<td>-N</td>
<td>Suppress the initial printing of headers</td>
</tr>
<tr>
<td>-n</td>
<td>Inhibit reading of /etc/mail.rc</td>
</tr>
<tr>
<td>-s</td>
<td>Use as subject in outgoing mail</td>
</tr>
<tr>
<td>-T</td>
<td>Article-id's of read/deleted messages to</td>
</tr>
<tr>
<td>-u</td>
<td>Read 's mail instead of your own</td>
</tr>
<tr>
<td>-v</td>
<td>Invoke sendmail with the flag</td>
</tr>
</tbody>
</table>

Notes:
- `-d` and `-T` are not for human use.

```
$OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
```

```
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```

---

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While typing in a message to be sent to others, it is often useful to be able to invoke the text editor on the partial message, print the message, execute a shell command, or do some other auxiliary function.

Mail provides these capabilities through "tilde escapes", which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

```
~p
```

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since Mail requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape

```
~e
```

which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor.

Mail will respond by typing

```
(continue)
```

after which you may continue typing text which will be appended to your message, or type <Control-D> to end the message.
A standard text editor is provided by
.i Mail .
You can override this default by setting the valued option
.q EDITOR
to something else. For example, you might prefer:
.(l
set EDITOR=/bin/ed
.)l
.pp
Many systems offer a screen editor as an alternative to the standard
text editor, such as the
.i vi
editor from UC Berkeley,
or
.i mg ,
an emacs-like editor.
To use the screen, or
.i visual
editor, on your current message, you can use the escape,
.(l
~v
.)l
~v works like ~e, except that the screen editor is invoked instead.
A default screen editor is defined by
.i Mail .
If it does not suit you, you can set the valued option
.q VISUAL
to the path name of a different editor.
.pp
It is often useful to be able to include the contents of some
file in your message; the escape
.(l
~r filename
.)l
is provided for this purpose, and causes the named file to be appended
to your current message.
.i Mail
complains if the file doesn't exist
or can't be read. If the read is successful, the number of lines and
characters appended to your message is printed, after which you may continue
appending text. The filename may contain shell metacharacters like * and ?
which are expanded according to the conventions of your shell.
.pp
As a special case of ~r, the escape
.(l
~d
.)l
reads in the file
.q dead.letter
in your home directory. This is often useful since
.i Mail
copies the text
of your message there when you abort a message with <Control-C>.
.pp
To save the current text of your message on a file you may use the
.(l
~w filename
.)l
escape.
.i Mail
will print out the number of lines and characters written
to the file, after which you may continue appending text to your message.
Shell metacharacters may be used in the filename, as in ~r and are expanded
with the conventions of your shell.
.pp
If you are sending mail from within
.i Mail's
command mode
you can read a message sent to you into the message
you are constructing with the escape:
.(l
~m 4
.)l
which will read message 4 into the current message, shifted right by
one tab stop. You can name any non-deleted message, or list of messages.
Messages can also be forwarded without shifting by a tab stop with ~f.
This is the usual way to forward a message.
.pp
If, in the process of composing a message, you decide to add additional
people to the list of message recipients, you can do so with the escape
.(l
~t name1 name2 ...
.)l
You may name as few or many additional recipients as you wish. Note
that the users originally on the recipient list will still receive
the message; you cannot remove someone from the recipient
list with ~t.
.pp
If you wish, you can associate a subject with your message by using the
escape
.(l
~s Arbitrary string of text
.)l
which replaces any previous subject with
.q "Arbitrary string of text."
The subject, if given, is sent near the
For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape

```
~c name1 name2 ...
```

adds the named people to the

```
"Cc:"
```
list, similar to `~t`. Again, you can execute `~p` to see what the message will look like.

The escape

```
~b name1 name2 ...
```

adds the named people to the

```
"Cc:"
```
list, but does not make the names visible in the

```
"Cc:"
```
line ("blind" carbon copy).

The recipients of the message together constitute the

```
"To:"
```
field, the subject the

```
"Subject:"
```
field, and the carbon copies the

```
"Cc:"
```
field. If you wish to edit these in ways impossible with the `~t, ~s, ~c` and `~b` escapes, you can use the escape

```
~h
```
which prints

```
"To:"
```
followed by the current list of recipients and leaves the cursor (or printhead) at the end of the line. If you type in ordinary characters, they are appended to the end of the current list of recipients. You can also use your erase character to erase back into the list of recipients, or your kill character to erase them altogether. Thus, for example, if your erase and kill characters are the standard (on printing terminals) `<Control-H>` and `<Control-U>` keys,

```
~h
```

To: root kurt^H^H^H^Hbill
would change the initial recipients
   "root kurt"
   to
   "root bill."
When you type a newline,
   Mail
advances to the
   "Subject:"
field, where the same rules apply. Another newline brings you to the
   "Cc:"
field, which may be edited in the same fashion. Another newline
brings you to the
   "Bcc:"
("blind" carbon copy) field, which follows the same rules as the "Cc:"
field. Another newline
leaves you appending text to the end of your message. You can use
~p to print the current text of the header fields and the body
of the message.
   
To effect a temporary escape to the shell, the escape
   ~/command
is used, which executes
   command
and returns you to mailing mode without altering the text of
your message. If you wish, instead, to filter the body of your
message through a shell command, then you can use
   ~/command
which pipes your message through the command and uses the output
as the new text of your message. If the command produces no output,
   Mail
assumes that something is amiss and retains the old version
of your message. A frequently-used filter is the command
   fmt ,
designed to format outgoing mail.
   
To effect a temporary escape to
   Mail
command mode instead, you can use the
   ~/\IMail command\fP
escape. This is especially useful for retyping the message you are
replying to, using, for example:

```plaintext
~t
~
```

It is also useful for setting options and modifying aliases.

```plaintext
.pp
If you wish abort the current message, you can use the escape
```plaintext
~q
~
```
This will terminate the current message and return you to the
shell (or `mail` if you were using the `mail` command).

If the `save` option is set, the message will be copied
to the file
```plaintext
~q dead.letter
```
in your home directory.

```plaintext
.pp
If you wish to abort the current message,
without saving any copy of it whatsoever,
even if the `save` option is set,
you can use the escape
```plaintext
~x
~
```
```plaintext
.pp
If you wish (for some reason) to send a message that contains
a line beginning with a tilde, you must double it. Thus, for example,
```plaintext
~This line begins with a tilde.
```
sends the line
```plaintext
~This line begins with a tilde.
```
```plaintext
.pp
Finally, the escape
```plaintext
~?
~
```
prints out a brief summary of the available tilde escapes.

```plaintext
.pp
On some terminals (particularly ones with no lower case)
tilde's are difficult to type.
```

Mailer
allows you to change the escape character with the
```plaintext
~q escape
```
option. For example, I set
```plaintext
~
```
and use a right bracket instead of a tilde. If I ever need to send a line beginning with right bracket, I double it, just as for ~.

Changing the escape character removes the special meaning of ~.

This section describes how to send mail to people on other machines. Recall that sending to a plain login name sends mail to that person on your machine. If your machine is directly (or sometimes, even, indirectly) connected to the Internet, you can send messages to people on the Internet using a name of the form

```
name@host.domain
```

where

- `name` is the login name of the person you're trying to reach,
- `host` is the name of the machine on the Internet, and
- `domain` is the higher-level scope within which the hostname is known, e.g. EDU (for educational institutions), COM (for commercial entities), GOV (for governmental agencies), ARPA for many other things, BITNET or CSNET for those networks.

If your recipient logs in on a machine connected to yours by UUCP (the Bell Laboratories supplied network that communicates over telephone lines), sending mail can be a bit more complicated. You must know the list of machines through which your message must travel to arrive at his site. So, if his machine is directly connected to yours, you can send mail to him using the syntax:

```
host!name
```

where, again,

- `host` is the name of the machine and
- `name` is the login name.

If your message must go through an intermediary machine first, you must use the syntax:

```
intermediary!host!name
```

and so on. It is actually a feature of UUCP that the map of all the systems in the network is not known anywhere (except where people decide to write it down for convenience). Talk to your system administrator.
about good ways to get places; the
command will tell you systems whose names are recognized, but not which ones are frequently called or well-connected.

When you use the
command to respond to a letter, there is a problem of figuring out the names of the users in the
lists
If the original letter was sent to you by someone on the local machine, then this problem does not exist, but if the message came from a remote machine, the problem must be dealt with.
uses a heuristic to build the correct name for each user relative to the local machine. So, when you
to remote mail, the names in the
lists may change somewhat.

As described previously, you can send mail to either user names or names. It is also possible to send messages directly to files or to programs, using special conventions. If a recipient name has a `/` in it or begins with a `+`, it is assumed to be the path name of a file into which to send the message. If the file already exists, the message is appended to the end of the file. If you want to name a file in your current directory (ie, one for which a `/` would not usually be needed) you can precede the name with `./`
So, to send mail to the file
in the current directory, you can give the command:

If the name begins with a `+`, it is expanded into the full path name of the folder name in your folder directory.
This ability to send mail to files can be used for a variety of purposes, such as maintaining a journal and keeping a record of
mail sent to a certain group of users. The second example can be
done automatically by including the full pathname of the record
file in the
.b alias
command for the group. Using our previous
.b alias
example, you might give the command:
'>
alias project sam sally steve susan /usr/project/mail_record
'>
Then, all mail sent to "project" would be saved on the file
.q /usr/project/mail_record
as well as being sent to the members of the project. This file
can be examined using
.i "Mail \-f" .
-pp
It is sometimes useful to send mail directly to a program, for
example one might write a project billboard program and want to access
it using
.i Mail .
To send messages to the billboard program, one can send mail
to the special name `|billboard' for example.
.i Mail
treats recipient names that begin with a `|' as a program to send
the mail to. An
.b alias
can be set up to reference a `|' prefaced name if desired.
.i Caveats :
the shell treats `|' specially, so it must be quoted on the command
line. Also, the `|' program must be presented as a single argument to
mail. The safest course is to surround the entire name with double
quotes. This also applies to usage in the
.b alias
command. For example, if we wanted to alias `rmgs' to `rmgs \-s'
we would need to say:
'>
alias rmgs "| rmgs \-s"
'>
#}

1.2702 dsn 1.4.6

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1.2711 htop 2.2.0-r0

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url="http://www.levien.com/libart/
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subpackages="$packagename-dev"
```bash
_builddir="$srcdir/libart_lgpl-$pkgver"
build() {
   cd "$_builddir"
   ./configure --prefix=/usr || return 1
   make || return 1
}

package() {
   cd "$_builddir"
   make DESTDIR="$pkgdir" install || return 1
}
md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
   table of data to be supplied by an application program that uses
   the facility, other than as an argument passed when the facility
   is invoked, then you must make a good faith effort to ensure that,
   in the event an application does not supply such function or
   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
   a purpose that is entirely well-defined independent of the
   application. Therefore, Subsection 2d requires that any
   application-supplied function or table used by this function must
   be optional: if the application does not supply it, the square
   root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.2716 gobject-introspection 1.42.0 1.el7

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
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works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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covered by this License; they are outside its scope. The act of
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such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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The initial code for shuffling an array (originally in class
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The textbook (containing a proof that the shuffle is uniformly random) is
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elements; automatically closes elements with optional end tags; and can
handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the
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NekoHTML parser with existing XNI tools without modification or
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jackson-jq

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo

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Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing"). It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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boilerpipe

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
```
    <copyField source="cat" dest="text" maxChars="30000" />
```

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before analysis is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
```
    <copyField source="*_t" dest="text" maxChars="25000" />
```

[IMPORTANT]

The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., you cannot copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]

```xml
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
```

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class Permission {
  String name;
  Set<String> path, role, collections, method;
  Map<String, Function<String[], Boolean>> params;
  PermissionNameProvider.Name wellknownName;
  Map originalConfig;

  private Permission() { }

  static Permission load(Map m) {
    Permission p = new Permission();
    p.originalConfig = new LinkedHashMap<>(m);
    String name = (String) m.get(NAME);
    if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not specified");
    p.role = readValueAsSet(m, "role");
    if (PermissionNameProvider.Name.get(name)!= null) {
      p.wellknownName = PermissionNameProvider.Name.get(name);
      HashSet<String> disAllowed = new HashSet<>(knownKeys);
      disAllowed.remove("role"); //these are the only
disAllowed.remove(NAME);//allowed keys for well-known permissions
disAllowed.remove("collection"); //allowed keys for well-known permissions
disAllowed.remove("index");
for (String s : disAllowed) {
    if (m.containsKey(s))
        throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the permission : " + name);
}

p.name = name;
p.path = readSetSmart(name, m, "path");
p.collections = readSetSmart(name, m, "collection");
p.method = readSetSmart(name, m, "method");
Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
if (paramRules != null) {
    p.params = new LinkedHashMap<>();
    for (Map.Entry<String, Object> e : paramRules.entrySet()) {
        if (e.getValue() == null) {
            p.params.put(e.getKey(), (String[] val) -> val == null);
        } else {
            List<String> patternStrs = e.getValue() instanceof List ?
                (List) e.getValue() :
                singletonList(e.getValue().toString());
            List patterns = patternStrs.stream()
                .map(it -> it.startsWith("REGEX:")) ?
                Pattern.compile(String.valueOf(it.substring("REGEX:".length())))
                : it
                .collect(Collectors.toList());
            p.params.put(e.getKey(), val -> {
                if (val == null) return false;
                for (Object pattern : patterns) {
                    for (String s : val) {
                        if (pattern instanceof String) {
                            if (pattern.equals(s)) return true;
                        } else if (pattern instanceof Pattern) {
                            if (((Pattern) pattern).matcher(s).find()) return true;
                        }
                    }
                }
                return false;
            });
        }
    }
    return p;
}
/**
 * This checks for the defaults available other rules for the keys
 */
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
    "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
        return set;
    }
    return set == null ? singleton(null) : set;
}
/**
 * read a key value as a set. if the value is a single string ,
 * return a singleton set
 *
 * @param m the map from which to lookup
 * @param key the key with which to do lookup
 */
static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("*");
        }
        return null;
    }
    if (val instanceof Collection) {
        Collection list = (Collection) val;
        for (Object o : list) result.add(String.valueOf(o));
    } else if (val instanceof String) {
        result.add((String) val);
    } else {
        throw new RuntimeException("Bad value for : " + key);
    }
    return result.isEmpty() ? null : Collections.unmodifiableSet(result);
}
@Override
public String toString() {


return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method", NAME,"index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT", "HEAD");

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https://github.com/rjohnsondev/java-libpst

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
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a) Accompany the combined library with a copy of the same work
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Ty Coon, President of Vice

That's all there is to it!
This is the Debian version of the newt library.
newt was written by Erik Troan <ewt@redhat.com>.

The original package was put together by Enrique Zanardi <ezanard@debian.org>, from sources obtained from:
Recent upstream versions can be found at: http://fedora.redhat.com/

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1.2734 mhash 0.9.9.9
1.2734.1 Available under license :
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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1.2738 expat 2.1.0-4ubuntu1.4

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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@heading END OF TERMS AND CONDITIONS

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terms.

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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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it under the terms of the GNU General Public License as published by
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You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box''.

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@c man end

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.2744 binutils 2.20.51

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.
The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon.
University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.2751 gawk 4.0.2

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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FindBugs-jsr305 3.0.0

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1.2756 openssh 6.6p1-2ubuntu2.13

1.2756.1 Available under license:

/*
$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#if !definedCompat POLL H
#defineCompat POLL H

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNRNM 0x0040
#define POLLNMPOLLRDNRNM
#define POLLWRNRMM POLLOUT
#define POLLRDBAND 0x0080
*/
}
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */

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[Tatu continues]  
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- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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* @version 3.0 (December 2000)

* Optimised ANSI C code for the Rijndael cipher (now AES)

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>

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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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 *
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */

#define _BSD_WAITPID_H
#endif

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */

#endif

Open Source Used In Tetration 3.5.1 28982
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w) (_W_INT(w) & 0177)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#ifdef HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.2757 curl 7.29.0 35.el7.centos

1.2757.1 Available under license :

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1.2758 perl-b-lint 1.17-3.el7

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B-Lint

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A README file is required for CPAN modules since CPAN extracts the README file from a module distribution so that people browsing the archive can use it get an idea of the modules uses. It is usually a good idea to provide version information here so that people can decide whether fixes for the module are worth downloading.

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To install this module, run the following commands:

perl Makefile.PL
make
test
make install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

perldoc B::Lint

You can also look for information at:

Search CPAN
  http://search.cpan.org/dist/B-Lint

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  http://rt.cpan.org/NoAuth/Bugs.html?Dist=B-Lint

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---
abstract: 'Perl lint'

author:
- 'Joshua ben Jore <jjore@cpan.org>'

build_requires:
  ExtUtils::MakeMaker: 0

configure_requires:
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dynamic_config: 1

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license: unknown

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: B-Lint

no_index:

directory:
  - t
  - inc

requires:
  Module::Pluggable: 0
  Test::More: 0
  if: 0

version: 1.17

---

1.2759 python-cheetah 2.4.4 5.el7.centos

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1.2760 libtext-soundex-perl 3.4 1build1

1.2761 pyyaml 3.10-4ubuntu0.1

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1.2762 commons-codec 1.10

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   contains test data from http://aspell.net/test/orig/batch0.tab.
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use Text::Wrap;

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    'clone.2' => 'GPL',
    'capget.2' => 'GPL',
    'netlink.3' => 'GPL',
    'nfsservctl.2' => 'PD',
    'stdin.3' => 'PD',
    'boot.7' => 'GPL',
    'hosts.equiv.5' => 'GPL',
    '__setfpucw.3' => 'GPL',
    'bindresvport.3' => 'BSD',
    'futex.2' => 'PD',
    'futex.7' => 'MIT',
    'getrpcent.3' => 'BSD',
    'getrpcport.3' => 'BSD',
    'ld.so.8' => 'PD',
    'pivot_root.2' => 'GPL',
    'rpc.3' => 'BSD',
    'rpc.5' => 'BSD',
    'xdr.3' => 'BSD',
    'netlink.7' => 'GPL',
    'tzfile.5' => 'PD',
    'wavelan.4' => 'nolicense',
    'sync.8' => 'GPL',
    'fcloseall.3' => 'Linux1',
    'fallocate.2' => 'GPLv2',
    'getdtablesize.2' => 'Linux2',
);
my %licensetext = (  
  'gai.conf.5' => 'GPLv2',  
  'nss.5' => 'GPLv2',  
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# hash of arrays with each element being a manpage
#
my %manpages = ();

die "E: make-copyright root-dir output-file-rel" if ($#ARGV lt 1);

my $dir = $ARGV[0];
my $output = $ARGV[1];

opendir(D, $dir) || die "Cannot open $dir";
my @files = sort (grep (!/^\.\..*/re, readdir(D))); closedir(D);

my $blurb = "
my $license;
my $l;
my $c = 0;
my @unknown;
foreach my $file (@files) {
  if (open (F, $dir."/$file")) {
    $blurb = join ("", <F>);
    close (F);
    $license = ""
    if (exists $exception{$file}) {
      $license = $exception{$file};
    } elsif (!exists $licensetext{$file}) {
      foreach $l (keys %licenses) {
        if ($blurb =~ /$licenses{$l}/) {
          $license = $l;
          last;
        }
      }
    } else {
      $license = ""
    }
  } elsif (!exists $licensetext{$file}) {
    printf STDERR "E: Unknown license (%d) at $file", ++$c;
    push (@unknown, $file);
  } elsif ($license) {
    $file =~ /(.*)\.(\d)/;
    push (@{$manpages{$license}}, "$1($2)");
  } else {
    push (@unknown, $file);
  }
}
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2. In this mail include all information relevant for this problem, i.e. include a description of the bug and not only its bug number.

3. If the maintainer is not able or willing to fix the problem or does not respond within four days, continue with step 4.

4. Work on the bug and prepare a patch. Do not upload into the Debian archive.

5. Send the entire patch, together with enough explanations, to the maintainer for reviewing and ask him for permission of an NMU using this patch.

6. IF AND ONLY IF the maintainer approves the patch (or doesn't respond within four days), upload the NMU to the incoming directory and send the patch to the BTS. If the NMU is not approved, go back to 4. or add the NMU to your homepage, but do not upload it to the Debian archive.

7. Properly sized and well-written patches sent to the BTS are always appreciated, even if they are rejected later. They demonstrate a potential solution which could probably improved into a real solution.

8. NEVER change the way a package is maintained in an NMU, i.e. don't remove dh_* stuff or switch to dh_* respectively. This rule applies to all NMU's, not only to an NMU for this package.

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This package was put together by Martin Schulze <joey@infodrom.org> from the sources at <http://www.kernel.org/pub/linux/docs/man-pages/>. Its previous maintainers were Martin Schulze and Nicols Lichtmaier.


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Flags: 10
Return-Path: spcecdt@armory.com
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id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
  "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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@c End:

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id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

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1.2767 aws-java-sdk-s3 1.11.414

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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SelectObjectContentRequest.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/KeyWrapException.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/UploadObjectObserver.java
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/**
 * Synchronous client for accessing Amazon S3.
 *
 * <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
 *
 * <h2>Introduction</h2>
 * <p>
 * This appendix summarizes the current crypto related meta information
 * associated with an S3 object encrypted using SDK client-side encryption. In
 * general, the meta information is just a map of key/value pairs. Physically
 * they are persisted either as metadata of the encrypted S3 object, or as a
 * separate S3 object called an "instruction file" (which is just a JSON file in
 * plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,
 * such as <code>"AES/CBC/PKCS5Padding"</code>, please refer to Oracle's <a
 * href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html">
 * Java&trade; Cryptography Architecture Standard Algorithm Name Documentation</a>
 * for more details.
 *
 * <h2>S3 metadata vs instruction file</h2>
 *
 * Note when a key/value pair is stored as "user metadata" as part of the S3
 * metadata, the SDK always adds an additional prefix of <b>x-amz-meta-</b> to
 * the key name. In contrast, the SDK doesn't add any prefix when the key names
 * are stored in an instruction file. (The reason has to do with how the http
 * headers are handled.)
 *
 * For example, <b>x-amz-key</b> would get stored as <b>x-amz-meta-x-amz-key</b>
* in S3 metadata. In contrast, `<b>x-amz-key</b>` would simply be stored as is
* (ie without the prefix) in an instruction file.
* 
* All the keys described below are considered "user metadata" by the SDK.
* 
* `<h2>S3 v1 crypto meta information (supported by all SDK's)</h2>`
* 
* For non-KMS client side encryption, this v1 crypto meta information is used
to support the "Encryption Only" crypto mode (which involves the use of
* `<code>AES/CBC/PKCS5Padding</code>` for content encryption, and
* `<code>AES/ECB</code>` for encrypting the one-time randomly generated data
* key). For KMS client-side encryption, the v2 crypto meta information is used.
* 
* `<p>`
* `<table border=1>`
* `<tr align="left">`
* `<th>key</th>`
* `<th>description</th>`
* `</tr>`
* `<tr>`
* `<td width="200">`<b>x-amz-key</b>`</td>`
* `<td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek
* is randomly generated per S3 object, and is always an AES 256-bit key. The
* corresponding cipher is always "AES/CBC/PKCS5Padding".</td>`
* `</tr>`
* `<tr>`
* `<td>`<b>x-amz-iv</b>`</td>`
* `<td>Randomly generated IV (per S3 object), base64 encoded</td>`
* `</tr>`
* `<tr>`
* `<td>`<b>x-amz-matdesc</b>`</td>`
* `<td>Customer provided material description in JSON (UTF8) format. Used to
* identify the client-side master key (ie used to encrypt/wrap the generated
* content encrypting key).</td>`
* `</tr>`
* `<tr>`
* `<td>`<b>x-amz-unencrypted-content-length</b>`</td>`
* `<td>Unencrypted content length (optional but should be specified whenever
* possible).</td>`
* `</tr>`
* `</table>`
* 
* `<h2>S3 v2 crypto meta information (currently supported by the Java SDK)</h2>`
* 
* This v2 crypto meta information is used to support both authenticated
* encryption (which involves the use of `<code>AES/GCM/NoPadding</code>` for
* content encryption, and key wrapping for the one-time randomly generated data
* key), and KMS client-side encryption (which can either be encryption-only or
* authenticated encryption.)
### Key Meta Information

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-key-v2</td>
<td>CEK in key wrapped form. This is necessary so that the S3 encryption client that doesn't recognize the v2 format will not mistakenly decrypt S3 object encrypted in v2 format.</td>
</tr>
<tr>
<td>x-amz-iv</td>
<td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
</tr>
<tr>
<td>x-amz-matdesc</td>
<td>Customer provided material description in JSON format. (Same as v1). Used to identify the client-side master key.</td>
</tr>
<tr>
<td>x-amz-unencrypted-content-length</td>
<td>Unencrypted content length. (optional but should be specified whenever possible. Same as v1.)</td>
</tr>
<tr>
<td>x-amz-wrap-alg</td>
<td>Key wrapping algorithm used. Supported values: &quot;AESWrap&quot;, &quot;RSA/ECB/OAEWithSHA-256AndMGF1Padding&quot;, &quot;kms&quot; No standard key wrapping is used if this meta information is absent Always set to &quot;kms&quot; if KMS is used for client-side encryption</td>
</tr>
<tr>
<td>x-amz-cek-alg</td>
<td>Content encryption algorithm used. Supported values:</td>
</tr>
</tbody>
</table>
* <code>"AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"</code></li>
* <li>Default to <code>"AES/CBC/PKCS5Padding"</code> if this key is absent.</li>
* </ul>
* </td>
* </tr>
* <tr>
* <td><b>x-amz-tag-len</b></td>
* <td>Tag length (in bits) when AEAD is in use.
* <ul>
* <li>Only applicable if AEAD is in use. This meta information is absent
* otherwise, or if KMS is in use.</li>
* <li>Supported value: <code>"128"</code></li>
* </ul>
* </td>
* </tr>
* </table>

* <p>
* <h3>KMS Integration for client-side encryption</h3>
* <ol>
* <li>All client-side KMS protected S3 objects are stored in v2 crypto meta information
* format. However, the key wrapping algorithm, <code>x-amz-wrap-alg</code> is always
* set to <code>"kms"</code>.
* </li>
* <li>The KMS Customer Master Key ID is currently stored as part of the
* material description, <code>x-amz-matdesc</code>, under the key-name
* <code>x-amz-cmk_id</code>.
* </li>
* </ol>

* <p>
* <h4>Sample S3 crypto meta information for KMS client-side encryption</h4>
* 
* <pre>
* x-amz-meta-x-amz-key-v2:
* CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhsqKSUZ7eIs7o8KGpQtmHTUTUj
BLJRuu8N6RCPviIAAAB+MHwGCSqGSIb3DQEHBqBvMG0CAQAwaAYJKoZIhlvcNAQcBMB4GCWCGSAFl
AwQBLjARBAyD0rzN3KHViWixDVCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVylIC/PKIhALvGloVLnf86m
cJZNpTXtwMkKkDocVj3Z1zGjZTufFsOH
* x-amz-iv: xqOHh+M6y0UogwG5SHJM3Q==
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/CBC/PKCS5Padding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* </pre>

* <p>
* <h5>CryptoMode: Authenticated Encryption</h5>
* 
* <pre>
* x-amz-meta-x-amz-key-v2:
* CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhsqKSUZ7eIs7o8KGpQtmHTUTUj
BLJRuu8N6RCPviIAAAB+MHwGCSqGSIb3DQEHBqBvMG0CAQAwaAYJKoZIhlvcNAQcBMB4GCWCGSAFl
AwQBLjARBAyD0rzN3KHViWixDVCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVylIC/PKIhALvGloVLnf86m
cJZNpTXtwMkKkDocVj3Z1zGjZTufFsOH
* x-amz-iv: xqOHh+M6y0UogwG5SHJM3Q==
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/CBC/PKCS5Padding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* </pre>

* <p>
The following key is always included as part of the S3 metadata of the instruction file (which is just an S3 object). Since the SDK treats this key as "user metadata", the key name is always prefixed with \texttt{x-amz-meta-}

* `x-amz-key-v2:
CiAJ2GwpJRnt4izujwoaicC2YdNRNSMeStG5rw3pEi+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KgpQtmHTUTUj
BLJRua8N6RCPitAAAB+MHwGCSqsGSIh3DQEHBqBvMG0CAQAwaAYJKoZIhvcNAQcBMBB4GCWGSAFl
AwQBLjARBAYtFVYW4h6QmwePK1ECAARCAO1VzoM6KxA9DHylNMm/BEbbje2vlA7FYf9OkUoSqrdxgKxp
NID9qal/7928m1Djld0bjtHejfm89C`

* `x-amz-unencrypted-content-length: 32768`
* `x-amz-cek-alg: AES/GCM/NoPadding`
* `x-amz-wrap-alg: kms`
* `x-amz-matdesc: \{'kms_cmek_id':"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26\"\}`
* `x-amz-tag-len: 128`

The following key is always included as part of the S3 metadata of the instruction file (which is just an S3 object).

* `x-amz-crypto-instr-file:
the presence of this key is used to indicate this S3 object is an instruction file (of an associated client-side encrypted S3 object).`

```
</h2>
<p>The following key is always included as part of the S3 metadata of the instruction file (which is just an S3 object). Since the SDK treats this key as "user metadata", the key name is always prefixed with \texttt{x-amz-meta-}

when physically stored.

* `x-amz-key-v2:
CiAJ2GwpJRnt4izujwoaicC2YdNRNSMeStG5rw3pEi+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KgpQtmHTUTUj
BLJRua8N6RCPitAAAB+MHwGCSqsGSIh3DQEHBqBvMG0CAQAwaAYJKoZIhvcNAQcBMBB4GCWGSAFl
AwQBLjARBAYtFVYW4h6QmwePK1ECAARCAO1VzoM6KxA9DHylNMm/BEbbje2vlA7FYf9OkUoSqrdxgKxp
NID9qal/7928m1Djld0bjtHejfm89C`

* `x-amz-unencrypted-content-length: 32768`
* `x-amz-cek-alg: AES/GCM/NoPadding`
* `x-amz-wrap-alg: kms`
* `x-amz-matdesc: \{'kms_cmek_id':"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26\"\}`
* `x-amz-tag-len: 128`

The following key is always included as part of the S3 metadata of the instruction file (which is just an S3 object).

* `x-amz-crypto-instr-file:
the presence of this key is used to indicate this S3 object is an instruction file (of an associated client-side encrypted S3 object).`

```
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  jar/com/amazonaws/services/s3/waiters/HeadObjectFunction.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/waiters/HeadBucketFunction.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/metrics/MetricsPrefixPredicate.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/ListBucketAnalyticsConfigurationsResult.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/metrics/MetricsFilterPredicate.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/inventory/InventoryFrequency.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/ListBucketAnalyticsConfigurationsRequest.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketInventoryConfigurationResult.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/lifecycle/LifecycleTagPredicate.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/analytics/AnalyticsPrefixPredicate.java
jar/com/amazonaws/services/s3/model/analytics/AnalyticsS3BucketDestination.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-3-1-11-414-sources-1-
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-3-1-11-414-sources-1-
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-3-1-11-414-sources-1-
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 */
/**
 * Interface for providing encryption materials.
 * Implementations are free to use any strategy for providing encryption
 * materials, such as simply providing static material that doesn't change,
 * or more complicated implementations, such as integrating with existing
 * key management systems.
 */

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jar/com/amazonaws/services/s3/model/EncryptionMaterialsProvider.java

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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/iterable/S3Objects.java
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*/
/**
 */
* Gets the optional <code>versionIdMarker</code> parameter indicating where in the
* sorted list of all versions in the specified bucket to begin returning
* results. Results are always ordered first lexicographically (i.e.
* alphabetically) and then from most recent version to least recent
* version.
* <p>
* A key marker must be specified when specifying a <code>versionIdMarker</code>.
* Results begin immediately after the version with the specified key and
* version ID.
* </p>
* @return The optional <code>versionIdMarker</code> parameter indicating where in the
*         sorted list of all versions in the specified bucket to begin
*         returning results.
* @see ListVersionsRequest#setVersionIdMarker(String)
* @see ListVersionsRequest#withVersionIdMarker(String)
*/

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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
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The original unzip source code has been extensively modified and
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rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
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*
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Erickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryssinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieuwma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keecci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
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Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.2785 libxxf86misc 1.0.3-7.1.el7

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1.2787 nss 3.53.1-1.el7_9

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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if

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For an executable, the required form of the "work that uses the
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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1.2789 libsub-exporter-perl 0.986-1

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1.2790 ipmi-tool 1.8.15-3.el6_10

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basecvt.pod
gcd.pod
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GIMP Palette
Name: custompalette
Columns: 4
#
  0  0  0     Index 3
  65 38 30    Index 4
 103 62 49    Index 6
  79  73  72   Index 7
 114 101  97   Index 8
 208 127 100   Index 9
 151 144 142   Index 10
 221 207 199   Index 11

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Name: badpalettefile
Columns: 4
#
0 0 0 Index 3
012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11
GIMP Palette
Name: Test
Columns: 0
#
GIMP Palette
Name: badpaletteentry
Columns: 4
#
0 0 0 Index 3
65 38
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11

1.2794 polkit 0.116
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@c ispell-local-pdict: "ispell-dict"
@c End:
(This file is under construction.)*- text -*.

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not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680(34)0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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* /opt/cola/permits/1137305513_1614052087.86/0/jcommander-1-58-sources-1-jar/com/beust/jcommander/ParameterDescription.java

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* /opt/cola/permits/1137305513_1614052087.86/0/jcommander-1-58-sources-1-
1.2813 gzip 1.5 8.el7

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This is libuuid, previously part of e2fsprogs this is now part of util-linux-ng and has thus moved to the util-linux Debian source package.

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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=head1 NAME

HTTP::Date - date conversion routines

=head1 SYNOPSIS

use HTTP::Date;

$string = time2str($time);  # Format as GMT ASCII time
$time = str2time($string);  # convert ASCII date to machine time

=head1 DESCRIPTION

This module provides functions that deal the date formats used by the HTTP protocol (and then some more). Only the first two functions, time2str() and str2time(), are exported by default.

=over 4


The `time2str()` function converts a machine time (seconds since epoch) to a string. If the function is called without an argument or with an undefined argument, it will use the current time.

The string returned is in the format preferred for the HTTP protocol. This is a fixed length subset of the format defined by RFC 1123, represented in Universal Time (GMT). An example of a time stamp in this format is:

```
Sun, 06 Nov 1994 08:49:37 GMT
```

The `str2time()` function converts a string to machine time. It returns `C<undef>` if the format of `$str` is unrecognized, otherwise whatever the `C<Time::Local>` functions can make out of the parsed time. Dates before the system's epoch may not work on all operating systems. The time formats recognized are the same as for `parse_date()`.

The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.

If the zone is not "C<GMT>" or numerical (like "C<-0800>" or "C<+0100>"), then the `C<Time::Zone>` module must be installed in order to get the date recognized.

This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year will be the full 4-digit year, and $month numbers start with 1 (for January).

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned (C<undef> in scalar context).

The function is able to parse the following formats:

```
"Thu Feb 3 17:03:55 GMT 1994" -- ctime(3) format
```
"Thu Feb 3 00:00:00 1994", -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT" -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT" -- broken rfc850 HTTP format

"03/Feb/1994:17:03:55 -0700" -- common logfile format
"09 Feb 1994 22:23:32 GMT" -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT" -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT" -- broken rfc850 format (no weekday)

"1994-02-03 14:15:29 -0100" -- ISO 8601 format
"1994-02-03 14:15:29" -- zone is optional
"1994-02-03" -- only date
"1994-02-03T14:15:29" -- Use T as separator
"19940203T141529Z" -- ISO 8601 compact format
"19940203" -- only date

"08-Feb-94" -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994" -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994" -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994" -- common logfile format (no time, no offset)

"Feb 3 1994" -- Unix 'ls -l' format
"Feb 3 17:03" -- Unix 'ls -l' format

"11-15-96 03:52PM" -- Windows 'dir' format

The parser ignores leading and trailing whitespace. It also allow the seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first matching date I<before> current month. If the year is given with only 2 digits, then parse_date() will select the century that makes the year closest to the current date.

=item time2iso( [Stime] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted string representing time in the local time zone.

=item time2isoz( [Stime] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted string representing Universal Time.

=back

=head1 SEE ALSO
NAME
HTTP::Date - date conversion routines

SYNOPSIS
use HTTP::Date;

$string = time2str($time);  # Format as GMT ASCII time
$ime = str2time($string);  # convert ASCII date to machine time

DESCRIPTION
This module provides functions that deal the date formats used by the HTTP protocol (and then some more). Only the first two functions, time2str() and str2time(), are exported by default.

time2str( [$time] )
The time2str() function converts a machine time (seconds since epoch) to a string. If the function is called without an argument or with an undefined argument, it will use the current time.

The string returned is in the format preferred for the HTTP protocol. This is a fixed length subset of the format defined by RFC 1123, represented in Universal Time (GMT). An example of a time stamp in this format is:

Sun, 06 Nov 1994 08:49:37 GMT

str2time( $str [, $zone] )
The str2time() function converts a string to machine time. It returns `undef' if the format of $str is unrecognized, otherwise whatever the `Time::Local' functions can make out of the parsed time. Dates before the system's epoch may not work on all operating...
systems. The time formats recognized are the same as for parse_date().

The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.

If the zone is not """"GMT"""" or numerical (like """"-0800"""" or """"+0100""""), then the "Time::Zone" module must be installed in order to get the date recognized.

parse_date( $str )
This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year returned will not have the number 1900 subtracted from it and the $month numbers start with 1.

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned.

The function is able to parse the following formats:

"Thu Feb  3 17:03:55 GMT 1994"    -- ctime(3) format
"Thu Feb  3 00:00:00 1994",      -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT" -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT" -- broken rfc850 HTTP format
"03/Feb/1994:17:03:55 -0700"   -- common logfile format
"09 Feb 1994 22:23:32 GMT"   -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT"   -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT"   -- broken rfc850 format (no weekday)
"1994-02-03 14:15:29 -0100"   -- ISO 8601 format
"1994-02-03 14:15:29"   -- zone is optional
"1994-02-03"     -- only date
"1994-02-03T14:15:29"     -- Use T as separator
"19940203T141529Z"     -- ISO 8601 compact format
"19940203"     -- only date

"08-Feb-94"     -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994"     -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994"     -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994" -- common logfile format (no time, no offset)

"Feb 3 1994" -- Unix 'ls -l' format
"Feb 3 17:03" -- Unix 'ls -l' format

"11-15-96 03:52PM" -- Windows 'dir' format

The parser ignores leading and trailing whitespace. It also allows the seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first matching date *before* current month. If the year is given with only 2 digits, then parse_date() will select the century that makes the year closest to the current date.

time2iso( [$time] )
   Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted string representing time in the local time zone.

time2isoz( [$time] )
   Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted string representing Universal Time.

SEE ALSO
   perlfunc, Time::Zone

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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If distribution of object code is made by offering access to copy
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When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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1.2833 liblog-message-simple-perl 0.10-1
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---
abstract: 'Simplified interface to Log::Message'
author:
  - 'Jos Boumans <kane[at]cpan.org>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Log-Message-Simple
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Log::Message: 0
  Test::More: 0
if: 0
resources:
  repository: git://github.com/jib/log-message-simple.git
version: 0.10

Found in path(s):
* /opt/cola/permits/1138400844_1614281985.87/0/liblog-message-simple-perl-0-10-orig-1-tar-gz/Log-Message-Simple-0.10/META.yml

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This is the README file for Log::Message::Simple, a simplified frontend to Log::Message (a small and powerful generic message logging module)

Please type "perldoc Log::Message::Simple" after installation to see the module usage information.

************************************************************************

* Description

Log::Message::Simple
This module is a simplified frontend to Log::Message, offering most common use for logging, and easy access to the stack (in both raw and pretty-printable form).

See the Log::Message::Simple manpage, and the Log::Message module for details.

************************************************************************

* Installation

Log::Message uses the standard perl module install process:

perl Makefile.PL
make
test
make install

************************************************************************

AUTHOR
This module by Jos Boumans <kane@cpan.org>.

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1.2834 libvmtools 9.4.0-1280544-5ubuntu6.4

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1.2835 jersey-container-servlet 2.22.2

1.2836 msgp 1.1.2

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1.2845 linux-kernel 3.10.0-514

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)  
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  
*  
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  
* http://www.hypermall.com/  
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY  
* interrupts us (except possibly for removal/insertion of the cable?)  
* 10/4/97 - began heavy inline documentation of the code. Corrected typos  
* and spelling mistakes.  
* 10/5/97 - added code to handle PHY interrupts, disable PHY on  
* loss of link, and correctly re-enable PHY when link is  
* re-established. (put back CFG_PHYIE)  
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
* see init_nicstar() for PHY initialization to change this. This driver  
* expects the Linux ATM stack to support scatter-gather lists  
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
*  
* Implementing minimal-copy of received data:  
* IDT always receives data into a small buffer, then large buffers  
* as needed. This means that data must always be copied to create  
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
* Fix is simple: make large buffers large enough to hold entire  
* SDU, and leave <small_buffer_data> bytes empty at the start. Then  
* copy small buffer contents to head of large buffer.  
* Trick is to avoid fragmenting Linux, due to need for a lot of large  
* buffers. This is done by 2 things:  
* 1) skb->destructor / skb->atm.recycle_buffer  
* combined, allow nicstar_free_rx_skb to be called to  
* recycle large data buffers  
* 2) skb_clone of received buffers  
* See nicstar_free_rx_skb and linearize_buffer for implementation  
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* 
* M. Welsh, 6 July 1996
* 
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for patching the cable card decoder driver

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/BucketOptions.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/session/ServerSession.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/InternalStreamConnection.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/CompressedMessage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/Compressor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/OpCode.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/LegacyMessage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/internal/connection/NoOpSessionContext.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/ClientSessionBinding.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/ZlibCompressor.java

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  jar/com/mongodb/ReadConcernLevel.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/ReadConcern.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoNotPrimaryException.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/TagSet.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/Tag.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoWriteException.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/CursorType.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/binding/AbstractReferenceCounted.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/DefaultAuthenticator.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoWriteConcernException.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/configuration/Optional.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/MapReduceIterable.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/AggregateIterable.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/EventIterateable.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/assertions/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/DistinctIterable.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/conversions/package-info.java
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jar/com/mongodb/diagnostics/logging/package-info.java
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jar/com/mongodb/connection/netty/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
jar/com/mongodb/DistinctIterableImpl.java
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jar/com/mongodb/assertions/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
jar/com/mongodb/codecs/configuration/package-info.java
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jar/com/mongodb/client/model/ReturnDocument.java
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info.java
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jar/com/mongodb/client/model/package-info.java
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jar/com/mongodb/client/result/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/BaseFindAndModifyOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/event/ServerListenerAdapter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/AsyncChangeStreamBatchCursor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/ChangeStreamIterable.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/codecs/GeometryCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/changestream/ChangeStreamIterableImpl.java
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  jar/com/mongodb/client/model/InsertOneOptions.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/KillCursorsMessage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/ProtocolHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/BsonNull.java
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  jar/org/bson/UuidRepresentation.java
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  jar/org/bson/codecs/UuidCodecHelper.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
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  jar/org/bson/codec/pojo/EnumPropertyCodecProvider.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/DropIndexOptions.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/ConnectionId.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/BulkWriteHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/result/DeleteResult.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoSocketWriteException.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/event/ClusterClosedEvent.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/DefaultClusterableServerFactory.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/event/ConnectionPoolOpenedEvent.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/SimpleExpression.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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 */
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */

Found in path(s):

jar/com/mongodb/client/model/geojson/codecs/NamedCoordinateReferenceSystemCodec.java
jar/com/mongodb/client/model/BuildersHelper.java
jar/com/mongodb/event/CommandFailedEvent.java
jar/com/mongodb/event/CommandSucceededEvent.java
jar/com/mongodb/event/CommandStartedEvent.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/BsonBinaryWriter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/UserOperationHelper.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/UpdateUserOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoCollectionImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoDatabaseImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/DropUserOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/RenameCollectionOperation.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/OperationHelper.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/DropIndexOperation.java
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jar/com/mongodb/DocumentToDBRefTransformer.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/util/JSONSerializers.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/CollationAlternate.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/DBCollectionRemoveOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/MongoDriverInformation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/CollationCaseFirst.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/CollationDistinctOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/gridfs/codecs/GridFSFileCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/CollationStrength.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/Sorts.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/Projections.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/Filters.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ExtendedJsonDoubleConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ShellRegularExpressionConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ExtendedJsonBinaryConverter.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ExtendedJsonUndefinedConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/JsonDoubleConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/JsonJavaScriptConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ShellMaxKeyConverter.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/JsonNullConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/StrictJsonWriter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ShellObjectIdConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ExtendedJsonInt32Converter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ShellInt64Converter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/json/ShellBinaryConverter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/operation/QueryBatchCursor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/codecs/ByteCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/codecs/ShortCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/operation/AsyncQueryBatchCursor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/BsonBinaryReader.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/Connection.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/AsyncConnection.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/operation/QueryBatchCursor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/Connection.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/AsyncConnection.java
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1.2854 libiosocketinetperl 2.71-1

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---
abstract: 'Object interface for AF_INET/AF_INET6 domain sockets'
author:
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- 'Modified by Rafael Martinez Torres <rafael.martinez@novagnet.com> and'
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build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.36
dynamic_config: 1
generated_by: 'Module::Build version 0.4005, CPAN::Meta::Converter version 2.131560'
keywords:
  - inet6
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  - ipv6
  - network
  - networking
  - output
  - socket
  - sockets
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: IO-Socket-INET6
provides:
  IO::Socket::INET6:
    file: lib/IO/Socket/INET6.pm
    version: 2.71
requires:
  Carp: 0
  Errno: 0
  Exporter: 0
  IO::Socket: 0
  Socket: 0
  Socket6: 0.12
  strict: 0
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resources:
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IO::Socket::INET6

1. Abstract
IO::Socket::INET6 provides an object interface to creating and using sockets in both AF_INET|AF_INET6 domain. It is built upon the IO::Socket interface and inherits all the methods defined by IO::Socket.

WARNING: You should use this module mainly to program IPv6 domain. Most probably future releases will not support AF_INET | AF_UNSPEC options, as the module seems to fail on some given corner cases. If you require IPv4, you are encouraged to use IO::Socket::INET from the application level. Be warned.
2. Install
% perl Makefile.PL
% make
% make test
# make install

3. AUTHOR and COPYRIGHT
This program is based on IO::Socket::INET by Graham Barr <gbarr@pobox.com>
and currently maintained by the Perl Porters.

Modified by Rafael Martinez Torres <rmartine@fdi.ucm.es> and
Euro6IX project.

Further modified by Shlomi Fish <shlomif@iglu.org.il>.

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1.2855 isl 0.12.2 1

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1.2858 opensaml-saml-api 3.3.0

1.2859 gmp 5.1.3+dfsg-1ubuntu1

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* configure.ac, Makefile.am: The original versions were derived from the
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* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfc2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

  Open Source Used In Tetration 3.5.1 30241
Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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1.2863 go-redis-redis 5.2.9

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.2871 netty 3.10.6.Final

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<one line to give the program's name and a brief idea of what it does.>
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```
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```

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Version 3, 29 June 2007

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1.2879 gc 8.0.4

1.2879.1 Available under license:

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This is a string packages that uses a tree-based representation.
See cord.h for a description of the functions provided. Ec.h describes
"extensible cords", which are essentially output streams that write
to a cord. These allow for efficient construction of cords without
requiring a bound on the size of a cord.
More details on the data structure can be found in

Boehm, Atkinson, and Plass, "Ropes: An Alternative to Strings", 
Software Practice and Experience 25, 12, December 1995, pp. 1315-1330.

A fundamentally similar "rope" data structure is also part of SGI's standard 
template library implementation, and its descendants, which include the 
GNU C++ library. That uses reference counting by default. 
There is a short description of that data structure at 

All of these are descendants of the "ropes" in Xerox Cedar.

cord/tests/de.c is a very dumb text editor that illustrates the use of cords. 
It maintains a list of file versions. Each version is simply a 
cord representing the file contents. Nonetheless, standard 
editing operations are efficient, even on very large files. 
(Its 3 line "user manual" can be obtained by invoking it without 
arguments. Note that ^R^N and ^R^P move the cursor by 
almost a screen. It does not understand tabs, which will show 
up as highlighted 'I's. Use the UNIX "expand" program first.)
To build the editor, type "make cord/de" in the gc directory.

Note that CORD_printf and friends use C functions with variable numbers 
of arguments in non-standard-conforming ways. This code is known to 
brake on some platforms, notably PowerPC. It should be possible to 
build the remainder of the library (everything but cordprnt.c) on 
any platform that supports the collector.

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* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfvcN/gc-8.0.4/darwin_stop_world.c
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* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfvcN/gc-8.0.4/pthread_start.c

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## Process this file with automake to produce Makefile.in.

# installed documentation
if ENABLE_DOCS
dist_doc_DATA = \\
    AUTHORS \ 
    README.md \ 
    doc/README.DGX386 \ 
    doc/README.Mac \ 
    doc/README.OS2 \ 
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    doc/README.cmake \ 
    doc/README.cords \ 

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#
# GC_SET_VERSION
# sets and AC_DEFINEs GC_VERSION_MAJOR, GC_VERSION_MINOR and GC_VERSION_MICRO
# based on the contents of PACKAGE_VERSION; PACKAGE_VERSION must conform to
# [0-9]+.[0-9]+.[0-9]+
#
AC_DEFUN((GC_SET_VERSION), [AC_MSG_CHECKING(GC version numbers)
GC_VERSION_MAJOR=`echo $PACKAGE_VERSION | sed 's/^[0-9]*/[^0-9]*/g'`
GC_VERSION_MINOR=`echo $PACKAGE_VERSION | sed 's/^[^0-9]*/[^0-9]*/g'`
GC_VERSION_MICRO=`echo $PACKAGE_VERSION | sed 's/^[^0-9]*/[^0-9]*/g'`
if test :$GC_VERSION_MAJOR: = ::
-o :$GC_VERSION_MINOR: = ::
-o :$GC_VERSION_MICRO: = ::
then
AC_MSG_RESULT(invalid)
AC_MSG_ERROR([nonconforming PACKAGE_VERSION='$PACKAGE_VERSION'])
fi

AC_DEFINE_UNQUOTED((GC_VERSION_MAJOR), $GC_VERSION_MAJOR,
                   [The major version number of this GC release.])
AC_DEFINE_UNQUOTED((GC_VERSION_MINOR), $GC_VERSION_MINOR,
                   [The minor version number of this GC release.])
AC_DEFINE_UNQUOTED((GC_VERSION_MICRO), $GC_VERSION_MICRO,
                   [The micro version number of this GC release.])
AC_MSG_RESULT(major=$GC_VERSION_MAJOR minor=$GC_VERSION_MINOR micro=$GC_VERSION_MICRO)
])
sinclude(libtool.m4)

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## Process this file with automake to produce part of Makefile.in.

# installed headers
#
pkginclude_HEADERS += \\n    include/gc.h \\n    include/gc_backptr.h \\n    include/gc_config_macros.h \\n    include/gc_gcj.h \\n    include/gc_inline.h \\n    include/gc_mark.h \\n    include/gc_pthread_redirects.h \\n    include/gc_tiny_fl.h \\n    include/gc_typed.h \\n    include/gc_version.h \

include/javaxfc.h 
include/leak_detector.h

# headers which are not installed
#
dist_noinst_HEADERS += \
   include/cord.h \
   include/cord_pos.h \
   include/ec.h \
   include/gc_alloc_ptrs.h \
   include/new_gc_alloc.h \
   include/private/darwin_semaphore.h \
   include/private/darwin_stop_world.h \
   include/private/dbg_mlc.h \
   include/private/gc_atomic_ops.h \
   include/private/gc_hdrs.h \
   include/private/gc_locks.h \
   include/private/gc_pmark.h \
   include/private/gc_priv.h \
   include/private/gcconfig.h \
   include/private/msvc_dbg.h \
   include/private/pthread_stop_world.h \
   include/private/pthread_support.h \
   include/private/specific.h \
   include/private/thread_local_alloc.h

# unprefixed header
include_HEADERS += \
   include/extra/gc.h

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* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/fnlz_mlc.c
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* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COZ3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/include/gc_mark.h
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* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COZ3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/cord/cordxtra.c
* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COZ3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/include/cord_pos.h
* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COZ3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/cord/tests/de.c
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* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COZ3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/include/cord.h
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* Further reading
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* Local Background Links
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The [Boehm](http://www.hboehm.info)-[Demers](http://www.cs.cornell.edu/annual_report/00-01/bios.htm#demers)-[Weiser](http://www.ubiq.com/hypertext/weiser/weiser.html) conservative Garbage Collector (**BDWGC**) can be used as a garbage collecting replacement for C `malloc` or C++ `new`. It allows you to allocate memory basically as you normally would, without explicitly deallocating memory that is no longer useful. The collector automatically recycles memory when it determines that it can no longer be otherwise accessed. A simple example of such a use is given [here](simple_example.md).

The collector is also used by a number of programming language implementations that either use C as intermediate code, want to facilitate easier interoperation with C libraries, or just prefer the simple collector interface. For a more detailed description of the interface, see [here](gcinterface.md).

Alternatively, the garbage collector may be used as a [leak detector](leak.md) for C or C++ programs, though that is not its primary goal.

Typically several versions are offered for [downloading](https://github.com/ivmai/bdwgc/wiki/Download): preview, stable, legacy. Usually you should use the one marked as the _latest stable_ release. Preview versions may contain additional features, platform support, but are likely to be less well tested. The list of changes for each version is specified on the [releases](https://github.com/ivmai/bdwgc/releases) page.

The arguments for and against conservative garbage collection in C and C++ are briefly discussed [here](http://www.hboehm.info/gc/issues.html). The beginnings of a frequently-asked-questions list are [here](http://www.hboehm.info/gc/faq.html).

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Empirically, this collector works with most unmodified C programs, simply by replacing `malloc` with `GC_malloc` calls, replacing `realloc` with `GC_realloc` calls, and removing free calls. Exceptions are discussed [here](http://www.hboehm.info/gc/issues.html).

## Platforms

The collector is not completely portable, but the distribution includes ports to most standard PC and UNIX/Linux platforms. The collector should work on Linux, *BSD, recent Windows versions, MacOS X, HP/UX, Solaris, Tru64, Irix and a few other operating systems. Some ports are more polished than others.

Irix pthreads, Linux threads, Win32 threads, Solaris threads (pthreads only), HP/UX 11 pthreads, Tru64 pthreads, and MacOS X threads are supported in recent versions.

### Separately distributed ports

For MacOS 9/Classic use, Patrick Beard’s latest port is available from `http://homepage.mac.com/pcbeard/gc/`. (Unfortunately, that’s now quite dated. I’m not in a position to test under MacOS. Although I try to incorporate changes, it is impossible for me to update the project file.)


[Debian Linux](http://www.debian.org/) includes prepackaged versions of the collector.

## Scalable multiprocessor versions

Kenjiro Taura, Toshio Endo, and Akinori Yonezawa have made available a [parallel collector](http://ieeexplore.ieee.org/abstract/document/1592629/) based on this one. Their collector takes advantage of multiple processors during a collection. Starting with GC v6.0alpha1 we also do this, though with more modest processor scalability goals. Our approach is discussed briefly in [this document](scale.md).

## Some Collector Details

The collector uses a [mark-sweep](http://www.hboehm.info/gc/complexity.html) algorithm. It provides incremental and generational collection under operating systems which provide the right kind of virtual memory support. (Currently
For an overview of the implementation, see [here](gcdescr.md).

The garbage collector distribution includes a C string (‘cord.h’) package that provides for fast concatenation and substring operations on long strings. A simple curses- and win32-based editor that represents the entire file as a cord is included as a sample application.

Performance of the non-incremental collector is typically competitive with ‘malloc’/‘free’ implementations. Both space and time overhead are likely to be only slightly higher for programs written for ‘malloc’/‘free’ (see Detlefs, Dossor and Zorn's [Memory Allocation Costs in Large C and C++ Programs](http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.30.3073&rep=rep1&type=ps)). For programs allocating primarily very small objects, the collector may be faster; for programs allocating primarily large objects it will be slower. If the collector is used in a multi-threaded environment and configured for thread-local allocation, it may in some cases significantly outperform ‘malloc’/‘free’ allocation in time.

We also expect that in many cases any additional overhead will be more than compensated for by decreased copying etc. if programs are written and tuned for garbage collection.

# Further Reading:

**The beginnings of a frequently asked questions list for this collector are [here](http://www.hboehm.info/gc/faq.html)**.


The Ravenbrook [Memory Management Reference](http://www.memorymanagement.org/).

David Chase's [GC FAQ](http://www.iecc.com/gclist/GC-faq.html).

Richard Jones' [Garbage Collection Page](https://www.cs.kent.ac.uk/people/staff/rej/gc.html) and his [book](http://www.cs.kent.ac.uk/people/staff/rej/gcbook/gcbook.html).
**The following papers describe the collector algorithms we use and the underlying design decisions at a higher level.**

(Some of the lower level details can be found [here](gcdescr.md).)

The first one is not available electronically due to copyright considerations. Most of the others are subject to ACM copyright.

Boehm, H., Dynamic Memory Allocation and Garbage Collection, _Computers in Physics 9_, 3, May/June 1995, pp. 297-303. This is directed at an otherwise sophisticated audience unfamiliar with memory allocation issues. The algorithmic details differ from those in the implementation. There is a related letter to the editor and a minor correction in the next issue.


**The following papers discuss language and compiler restrictions necessary to guaranteed safety of conservative garbage collection.**

We thank John Levine and JCLT for allowing us to make the second paper available electronically, and providing PostScript for the final version.

Boehm, H.,

Boehm, H., and D. Chase,

**Other related information:**

The Detlefs, Dosser and Zorn's
This is a performance comparison of the Boehm-Demers-Weiser collector to `malloc`/`free`, using programs written for `malloc`/`free`.

Joel Bartlett's

John Ellis and David Detlef's
[Safe Efficient Garbage Collection for C++](http://dl.acm.org/citation.cfm?id=1267983) proposal.

Henry Baker's [paper collection](http://home.pipeline.com/%7Ehbaker1/).

Slides for Hans Boehm's
[Allocation and GC Myths](http://www.hboehm.info/gc/myths.ps) talk.

# Current users:

Known current users of some variant of this collector include:
The runtime system for [GCJ](https://gcc.gnu.org/onlinedocs/gcc-4.8.5/gcj/), the static GNU java compiler.

[W3m](http://w3m.sourceforge.net/), a text-based web browser.

Some versions of the Xerox DocuPrint printer software.

The [Mozilla](http://www.mozilla.org/) project, as leak detector.

The [Mono](http://www.mono-project.com) project, an open source implementation of the .NET development framework.

The [DotGNU Portable.NET project](http://www.gnu.org/projects/dotgnu/), another open source .NET implementation.

The [Irssi IRC client](http://irssi.org/).

[The Berkeley Titanium project](http://titanium.cs.berkeley.edu/).

[The NAGWare f90 Fortran 90 compiler](http://www.nag.co.uk/nagware/NP/NP_desc.asp).

Elwood Corporation's Eclipse Common Lisp system, C library, and translator.

The [Bigloo Scheme](http://www-sop.inria.fr/mimosa/fp/Bigloo/) and [Camloo ML compilers](https://github.com/samoht/camloo) written by Manuel Serrano and others.

Brent Benson's [libscheme](http://www.cs.indiana.edu/scheme-repository/libscheme-vhll.final.html).

The MzScheme scheme implementation.


[The Berkeley Sather implementation](http://www1.icsi.berkeley.edu/~sather/).

[The Berkeley Harmonia Project](http://www.cs.berkeley.edu/~harmonia/harmonia/index.html).

The [Toba](http://www.cs.arizona.edu/projects/sumatra/toba/) Java Virtual Machine to C translator.

The [Gwydion Dylan compiler](http://www.gwydiondylan.org/).
[GNU Objective C runtime](http://gcc.gnu.org/onlinedocs/gcc/Objective-C.html).

[Macaulay 2](http://www.math.uiuc.edu/Macaulay2), a system to support research in algebraic geometry and commutative algebra.

The [Vesta](http://www.vestasys.org/) configuration management system.

[Visual Prolog 6](http://www.visual-prolog.com/).

[Asymptote LaTeX-compatible vector graphics language](http://asymptote.sf.net/).

# More information on the BDWGC primary site

[A simple illustration of how to build and use the collector](simple_example.md).

[Description of alternate interfaces to the garbage collector](gcinterface.md).

[Slides from an ISMM 2004 tutorial about the GC](http://www.hboehm.info/gc/04tutorial.pdf).

[A FAQ (frequently asked questions) list](http://www.hboehm.info/gc/faq.html).

[How to use the garbage collector as a leak detector](leak.md).

[Some hints on debugging garbage collected applications](debugging.md).

[An overview of the implementation of the garbage collector](gcdescr.md).

[The data structure used for fast pointer lookups](tree.md).

[Scalability of the collector to multiprocessors](scale.md).

[Directory](http://www.hboehm.info/gc/gc_source/) containing the distribution files of all garbage collector releases. It duplicates [Download](https://github.com/ivmai/bdwgc/wiki/Download) page on GitHub.

# More background information

[An attempt to establish a bound on space usage of conservative garbage collectors](http://www.hboehm.info/gc/bounds.html).

[Mark-sweep versus copying garbage collectors and their complexity](http://www.hboehm.info/gc/complexity.html).

[Pros and cons of conservative garbage collectors, in comparison to other collectors](http://www.hboehm.info/gc/conservative.html).

[Issues related to garbage collection vs. manual memory management in C/C++](http://www.hboehm.info/gc/issues.html).
[An example of a case in which garbage collection results in a much faster implementation as a result of reduced synchronization](http://www.hboehm.info/gc/example.html).

[Slide set discussing performance of nonmoving garbage collectors](http://www.hboehm.info/gc/nonmoving/).

[Slide set discussing _Destructors, Finalizers, and Synchronization_, POPL 2003](http://www.hboehm.info/popl03/web/).


[A Java/Scheme/C/C++ garbage collection benchmark](http://www.hboehm.info/gc/gc_bench/).

[Slides for talk on memory allocation myths](http://www.hboehm.info/gc/myths.ps).

[Slides for OOPSLA 98 garbage collection talk](http://www.hboehm.info/gc/gctalk.ps).

[Related papers](http://www.hboehm.info/gc/papers/).

# Contacts and new release announcements

GitHub and Stack Overflow are the major two places for communication.

Technical questions (how to, how does it work, etc.) should be posted to [Stack Overflow](https://stackoverflow.com/questions/tagged/boehm-gc) with _boehm-gc_ tag.

To contribute, please rebase your code to the latest [master](https://github.com/ivmai/bdwgc/tree/master/) and submit a [pull request](https://github.com/ivmai/bdwgc/pulls) to GitHub.

To report a bug, or propose (request) a new feature, create a [GitHub issue](https://github.com/ivmai/bdwgc/issues). Please make sure it has not been reported yet by someone else.

To receive notifications on every release, please subscribe to [Releases RSS feed](https://github.com/ivmai/bdwgc/releases.atom). Notifications on all issues and pull requests are available by [watching](https://github.com/ivmai/bdwgc/watchers) the project.

Mailing lists (bdwgc-announce@lists.opendylan.org, bdwgc@lists.opendylan.org, and the former gc-announce@linux.hpl.hp.com and gc@linux.hpl.hp.com) are not used at this moment. Their content is available in [bdwgc-announce](https://github.com/ivmai/bdwgc/files/1037650/bdwgc-announce-mailing-list-archive-2014_02.tar.gz)
and
[bdwgc](https://github.com/ivmai/bdwgc/files/1038163/bdwgc-mailing-list-archive-2017_04.tar.gz)
archive files, respectively. The gc list archive may also be read
at [Narkive](http://bdwgc.opendylan.narkive.com).

Some prior discussion of the collector has taken place on the gcc java mailing
list, whose archives appear [here](http://gcc.gnu.org/ml/java/), and also
on [gclist@iecc.com](http://lists.tunes.org/mailman/listinfo/gclist).

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-
  COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/doc/overview.md
No license file was found, but licenses were detected in source scan.

/*
  * Copyright 1988, 1989 Hans-J. Boehm, Alan J. Demers
  * Copyright (c) 1991-1996 by Xerox Corporation. All rights reserved.
  * Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved.
  * Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
  *
  * THIS MATERIAL IS PROVIDED AS IS, WITH ABSOLUTELY NO WARRANTY EXPRESSED
  * OR IMPLIED. ANY USE IS AT YOUR OWN RISK.
  *
  * Permission is hereby granted to use or copy this program
  * for any purpose, provided the above notices are retained on all copies.
  * Permission to modify the code and to distribute modified code is granted,
  * provided the above notices are retained, and a notice that the code was
  * modified is included with the above copyright notice.
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-
  COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/reclaim.c
No license file was found, but licenses were detected in source scan.

# Boehm-Demers-Weiser Garbage Collector

This is version 8.0.4 of a conservative garbage
collector for C and C++.

## Download

You might find a more recent/stable version on the
[Download](https://github.com/ivmai/bdwgc/wiki/Download) page, or
[BDWGC site](http://www.hboehm.info/gc/).

Also, the latest bug fixes and new features are available in the
## Overview

This is intended to be a general purpose, garbage collecting storage allocator. The algorithms used are described in:


Possible interactions between the collector and optimizing compilers are discussed in


and


Unlike the collector described in the second reference, this collector operates either with the mutator stopped during the entire collection (default) or incrementally during allocations. (The latter is supported on fewer machines.) On the most common platforms, it can be built with or without thread support. On a few platforms, it can take advantage of a multiprocessor to speed up garbage collection.

Many of the ideas underlying the collector have previously been explored by others. Notably, some of the run-time systems developed at Xerox PARC in the early 1980s conservatively scanned thread stacks to locate possible pointers (cf. Paul Rovner, "On Adding Garbage Collection and Runtime Types to a Strongly-Typed Statically Checked, Concurrent Language” Xerox PARC CSL 84-7). Doug McIlroy wrote a simpler fully conservative collector that was part of version 8 UNIX (tm), but appears to not have received widespread use.
Rudimentary tools for use of the collector as a [leak detector](doc/leak.md) are included, as is a fairly sophisticated string package "cord" that makes use of the collector. (See doc/README.cords and H.-J. Boehm, R. Atkinson, and M. Plass, "Ropes: An Alternative to Strings", Software Practice and Experience 25, 12 (December 1995), pp. 1315-1330. This is very similar to the "rope" package in Xerox Cedar, or the "rope" package in the SGI STL or the g++ distribution.)

Further collector documentation can be found in the [overview](doc/overview.md).

## General Description

This is a garbage collecting storage allocator that is intended to be used as a plug-in replacement for C's malloc.

Since the collector does not require pointers to be tagged, it does not attempt to ensure that all inaccessible storage is reclaimed. However, in our experience, it is typically more successful at reclaiming unused memory than most C programs using explicit deallocation. Unlike manually introduced leaks, the amount of unreclaimed memory typically stays bounded.

In the following, an "object" is defined to be a region of memory allocated by the routines described below.

Any objects not intended to be collected must be pointed to either from other such accessible objects, or from the registers, stack, data, or statically allocated bss segments. Pointers from the stack or registers may point to anywhere inside an object. The same is true for heap pointers if the collector is compiled with `ALL_INTERIOR_POINTERS` defined, or `GC_all_interior_pointers` is otherwise set, as is now the default.

Compiling without `ALL_INTERIOR_POINTERS` may reduce accidental retention of garbage objects, by requiring pointers from the heap to the beginning of an object. But this no longer appears to be a significant issue for most programs occupying a small fraction of the possible address space.

There are a number of routines which modify the pointer recognition algorithm. `GC_register_displacement` allows certain interior pointers to be recognized even if `ALL_INTERIOR_POINTERS` is not defined. `GC_malloc_ignore_off_page` allows some pointers into the middle of large objects to be disregarded, greatly reducing the probability of accidental retention of large objects. For most purposes it seems
best to compile with `ALL_INTERIOR_POINTERS` and to use
`GC_malloc_ignore_off_page` if you get collector warnings from
allocations of very large objects. See [here](doc/debugging.md) for details.

**WARNING**: pointers inside memory allocated by the standard `malloc` are not
seen by the garbage collector. Thus objects pointed to only from such a
region may be prematurely deallocated. It is thus suggested that the
standard `malloc` be used only for memory regions, such as I/O buffers, that
are guaranteed not to contain pointers to garbage collectible memory.
Pointers in C language automatic, static, or register variables,
are correctly recognized. (Note that `GC_malloc_uncollectable` has
semantics similar to standard malloc, but allocates objects that are
trapped by the collector.)

**WARNING**: the collector does not always know how to find pointers in data
areas that are associated with dynamic libraries. This is easy to
remedy if you know how to find those data areas on your operating
system (see `GC_add_roots`). Code for doing this under SunOS, IRIX
5.X and 6.X, HP/UX, Alpha OSF/1, Linux, and win32 is included and used
by default. (See doc/README.win32 for Win32 details.) On other systems
pointers from dynamic library data areas may not be considered by the
collector. If you're writing a program that depends on the collector
scanning dynamic library data areas, it may be a good idea to include
at least one call to `GC_is_visible` to ensure that those areas are
visible to the collector.

Note that the garbage collector does not need to be informed of shared
read-only data. However if the shared library mechanism can introduce
discontiguous data areas that may contain pointers, then the collector does
need to be informed.

Signal processing for most signals may be deferred during collection,
and during uninterruptible parts of the allocation process.
Like standard ANSI C mallocs, by default it is unsafe to invoke
malloc (and other GC routines) from a signal handler while another
malloc call may be in progress.

The allocator/collector can also be configured for thread-safe operation.
(Full signal safety can also be achieved, but only at the cost of two system
calls per malloc, which is usually unacceptable.)

**WARNING**: the collector does not guarantee to scan thread-local storage
(e.g. of the kind accessed with `pthread_getspecific`). The collector
does scan thread stacks, though, so generally the best solution is to
ensure that any pointers stored in thread-local storage are also
stored on the thread's stack for the duration of their lifetime.
(This is arguably a longstanding bug, but it hasn't been fixed yet.)
## Installation and Portability

As distributed, the collector operates silently.
In the event of problems, this can usually be changed by defining the
`GC_PRINT_STATS` or `GC_PRINT_VERBOSE_STATS` environment variables. This
will result in a few lines of descriptive output for each collection.
(The given statistics exhibit a few peculiarities.
Things don't appear to add up for a variety of reasons, most notably
fragmentation losses. These are probably much more significant for the
contrived program "test.c" than for your application.)

On most Unix-like platforms, the collector can be built either using a
GNU autoconf-based build infrastructure (type `./configure; make` in the
simplest case), or with a classic makefile by itself (type
`make -f Makefile.direct`).

Please note that the collector source repository does not contain configure
and similar auto-generated files, thus the full procedure of autoconf-based
build of `master` branch of the collector could look like:

```
    git clone git://github.com/ivmai/bdwgc.git
    cd bdwgc
    git clone git://github.com/ivmai/libatomic_ops.git
    ./autogen.sh
    ./configure
    make -j
    make check
```

Cloning of `libatomic_ops` is now optional provided the compiler supports
atomic intrinsics.

Below we focus on the collector build using classic makefile.
For the Makefile.direct-based process, typing `make check` instead of `make`
will automatically build the collector and then run `setjmp_test` and `gctest`.
`Setjmp_test` will give you information about configuring the collector, which is
useful primarily if you have a machine that's not already supported. Gctest is
a somewhat superficial test of collector functionality. Failure is indicated
by a core dump or a message to the effect that the collector is broken. Gctest
takes about a second to two to run on reasonable 2007 vintage desktops. It may
use up to about 30MB of memory. (The multi-threaded version will use more.
64-bit versions may use more.) `make test` will also, as its last step, attempt
to build and test the "cord" string library.)

Makefile.direct will generate a library gc.a which you should link against.
Typing "make cords" will add the cord library to gc.a.

The GNU style build process understands the usual targets. `make check`
runs a number of tests. `make install` installs at least libgc, and libcord. Try `./configure --help` to see the configuration options. It is currently not possible to exercise all combinations of build options this way.

It is suggested that if you need to replace a piece of the collector (e.g. GC_mark_rts.c) you simply list your version ahead of gc.a on the ld command line, rather than replacing the one in gc.a. (This will generate numerous warnings under some versions of AIX, but it still works.)

All include files that need to be used by clients will be put in the include subdirectory. (Normally this is just gc.h. `make cords` adds "cord.h" and "ec.h").

The collector currently is designed to run essentially unmodified on machines that use a flat 32-bit or 64-bit address space. That includes the vast majority of Workstations and X86 (X >= 3) PCs. (The list here was deleted because it was getting too long and constantly out of date.)

In a few cases (Amiga, OS/2, Win32, MacOS) a separate makefile or equivalent is supplied. Many of these have separate README.system files.

Dynamic libraries are completely supported only under SunOS/Solaris, (and even that support is not functional on the last Sun 3 release). Linux, FreeBSD, NetBSD, IRIX 5&6, HP/UX, Win32 (not Win32S) and OSF/1 on DEC AXP machines plus perhaps a few others listed near the top of dyn_load.c. On other machines we recommend that you do one of the following:

1) Add dynamic library support (and send us the code).
2) Use static versions of the libraries.
3) Arrange for dynamic libraries to use the standard malloc.
   This is still dangerous if the library stores a pointer to a garbage collected object. But nearly all standard interfaces prohibit this, because they deal correctly with pointers to stack allocated objects. (Strtok is an exception. Don't use it.)

In all cases we assume that pointer alignment is consistent with that enforced by the standard C compilers. If you use a nonstandard compiler you may have to adjust the alignment parameters defined in gc_priv.h. Note that this may also be an issue with packed records/structs, if those enforce less alignment for pointers.

A port to a machine that is not byte addressed, or does not use 32 bit or 64 bit addresses will require a major effort. A port to plain MSDOS
or win16 is hard.

For machines not already mentioned, or for nonstandard compilers, some porting suggestions are provided [here](doc/porting.md).

## The C Interface to the Allocator

The following routines are intended to be directly called by the user. Note that usually only `GC_malloc` is necessary. `GC_clear_roots` and `GC_add_roots` calls may be required if the collector has to trace from nonstandard places (e.g. from dynamic library data areas on a machine on which the collector doesn't already understand them.) On some machines, it may be desirable to set `GC_stacktop` to a good approximation of the stack base. (This enhances code portability on HP PA machines, since there is no good way for the collector to compute this value.) Client code may include "gc.h", which defines all of the following, plus many others.

1) `GC_malloc(nbytes)`
   - Allocate an object of size nbytes. Unlike malloc, the object is cleared before being returned to the user. `GC_malloc` will invoke the garbage collector when it determines this to be appropriate. `GC_malloc` may return 0 if it is unable to acquire sufficient space from the operating system. This is the most probable consequence of running out of space. Other possible consequences are that a function call will fail due to lack of stack space, or that the collector will fail in other ways because it cannot maintain its internal data structures, or that a crucial system process will fail and take down the machine. Most of these possibilities are independent of the malloc implementation.

2) `GC_malloc_atomic(nbytes)`
   - Allocate an object of size nbytes that is guaranteed not to contain any pointers. The returned object is not guaranteed to be cleared. (Can always be replaced by `GC_malloc`, but results in faster collection times. The collector will probably run faster if large character arrays, etc. are allocated with `GC_malloc_atomic` than if they are statically allocated.)

3) `GC_realloc(object, new_size)`
   - Change the size of object to be `new_size`. Returns a pointer to the new object, which may, or may not, be the same as the pointer to the old object. The new object is taken to be atomic if and only if the old one was. If the new object is composite and larger than the original object, then the newly added bytes are cleared (we hope). This is very likely to allocate a new object, unless `MERGE_SIZES` is defined in gc_priv.h. Even then, it is likely to recycle the old object only if the
object is grown in small additive increments (which, we claim, is generally bad coding practice.)

4) `GC_free(object)`
   - Explicitly deallocate an object returned by `GC_malloc` or `GC_malloc_atomic`. Not necessary, but can be used to minimize collections if performance is critical. Probably a performance loss for very small objects (<= 8 bytes).

5) `GC_expand_hp(bytes)`
   - Explicitly increase the heap size. (This is normally done automatically if a garbage collection failed to `GC_reclaim` enough memory. Explicit calls to `GC_expand_hp` may prevent unnecessarily frequent collections at program startup.)

6) `GC_malloc_ignore_off_page(bytes)`
   - Identical to `GC_malloc`, but the client promises to keep a pointer to the somewhere within the first 256 bytes of the object while it is live. (This pointer should normally be declared volatile to prevent interference from compiler optimizations.) This is the recommended way to allocate anything that is likely to be larger than 100 Kbytes or so. (`GC_malloc` may result in failure to reclaim such objects.)

7) `GC_set_warn_proc(proc)`
   - Can be used to redirect warnings from the collector. Such warnings should be rare, and should not be ignored during code development.

8) `GC_enable_incremental()`
   - Enables generational and incremental collection. Useful for large heaps on machines that provide access to page dirty information. Some dirty bit implementations may interfere with debugging (by catching address faults) and place restrictions on heap arguments to system calls (since write faults inside a system call may not be handled well).

9) Several routines to allow for registration of finalization code.
   User supplied finalization code may be invoked when an object becomes unreachable. To call `(*f)(obj, x)` when obj becomes inaccessible, use `GC_register_finalizer(obj, f, x, 0, 0);`
   For more sophisticated uses, and for finalization ordering issues, see gc.h.

The global variable `GC_free_space_divisor` may be adjusted up from its default value of 3 to use less space and more collection time, or down for the opposite effect. Setting it to 1 will almost disable collections and cause all allocations to simply grow the heap.

The variable `GC_non_gc_bytes`, which is normally 0, may be changed to reflect
the amount of memory allocated by the above routines that should not be considered as a candidate for collection. Careless use may, of course, result in excessive memory consumption.

Some additional tuning is possible through the parameters defined near the top of gc_priv.h.

If only `GC_malloc` is intended to be used, it might be appropriate to define:

```c
#define malloc(n) GC_malloc(n)
#define calloc(m,n) GC_malloc((m)*(n))
```

For small pieces of VERY allocation intensive code, gc_inl.h includes some allocation macros that may be used in place of `GC_malloc` and friends.

All externally visible names in the garbage collector start with `GC_`. To avoid name conflicts, client code should avoid this prefix, except when accessing garbage collector routines or variables.

There are provisions for allocation with explicit type information. This is rarely necessary. Details can be found in gc.Typed.h.

### The C++ Interface to the Allocator

The Ellis-Hull C++ interface to the collector is included in the collector distribution. If you intend to use this, type `make c++` after the initial build of the collector is complete. See gc_cpp.h for the definition of the interface. This interface tries to approximate the Ellis-Detlefs C++ garbage collection proposal without compiler changes.

Very often it will also be necessary to use gc_allocator.h and the allocator declared there to construct STL data structures. Otherwise subobjects of STL data structures will be allocated using a system allocator, and objects they refer to may be prematurely collected.

### Use as Leak Detector

The collector may be used to track down leaks in C programs that are intended to run with malloc/free (e.g. code with extreme real-time or portability constraints). To do so define `FIND_LEAK` in Makefile. This will cause the collector to invoke the `report_leak` routine defined near the top of reclaim.c whenever an inaccessible object is found that has not been explicitly freed. Such objects will also be automatically reclaimed.
If all objects are allocated with `GC_DEBUG_MALLOC` (see next section), then 
the default version of report_leak will report at least the source file and 
line number at which the leaked object was allocated. This may sometimes be 
sufficient. (On a few machines, it will also report a cryptic stack trace. 
If this is not symbolic, it can sometimes be called into a symbolic stack 
trace by invoking program “foo” with "tools/callprocs.sh foo". It is a short 
shell script that invokes adb to expand program counter values to symbolic 
addresses. It was largely supplied by Scott Schwartz.)

Note that the debugging facilities described in the next section can 
sometimes be slightly LESS effective in leak finding mode, since in 
leak finding mode, `GC_debug_free` actually results in reuse of the object. 
(Otherwise the object is simply marked invalid.) Also note that the test 
program is not designed to run meaningfully in `FIND_LEAK` mode. 
Use "make gc.a" to build the collector.

## Debugging Facilities

The routines `GC_debug_malloc`, `GC_debug_malloc_atomic`, `GC_debug_realloc`, 
and `GC_debug_free` provide an alternate interface to the collector, which 
provides some help with memory overwrite errors, and the like. 
Objects allocated in this way are annotated with additional 
information. Some of this information is checked during garbage 
collections, and detected inconsistencies are reported to stderr.

Simple cases of writing past the end of an allocated object should 
be caught if the object is explicitly deallocated, or if the 
collector is invoked while the object is live. The first deallocation 
of an object will clear the debugging info associated with an 
object, so accidentally repeated calls to `GC_debug_free` will report the 
deallocation of an object without debugging information. Out of 
memory errors will be reported to stderr, in addition to returning `NULL`.

`GC_debug_malloc` checking during garbage collection is enabled 
with the first call to `GC_debug_malloc`. This will result in some 
slowdown during collections. If frequent heap checks are desired, 
this can be achieved by explicitly invoking `GC_gcollect`, e.g. from 
the debugger.

`GC_debug_malloc` allocated objects should not be passed to `GC_realloc` 
or `GC_free`, and conversely. It is however acceptable to allocate only 
some objects with `GC_debug_malloc`, and to use `GC_malloc` for other objects, 
provided the two pools are kept distinct. In this case, there is a very 
low probability that `GC_malloc` allocated objects may be misidentified as 
having been overwritten. This should happen with probability at most 
one in $2^{32}$. This probability is zero if `GC_debug_malloc` is never called.
`GC_debug_malloc`, `GC_malloc_atomic`, and `GC_debug_realloc` take two additional trailing arguments, a string and an integer. These are not interpreted by the allocator. They are stored in the object (the string is not copied). If an error involving the object is detected, they are printed.

The macros `GC_MALLOC`, `GC_MALLOC_ATOMIC`, `GC_REALLOC`, `GC_FREE`, and `GC_REGISTER_FINALIZER` are also provided. These require the same arguments as the corresponding (nondebugging) routines. If gc.h is included with `GC_DEBUG` defined, they call the debugging versions of these functions, passing the current file name and line number as the two extra arguments, where appropriate. If gc.h is included without `GC_DEBUG` defined, then all these macros will instead be defined to their nondebugging equivalents. (`GC_REGISTER_FINALIZER` is necessary, since pointers to objects with debugging information are really pointers to a displacement of 16 bytes from the object beginning, and some translation is necessary when finalization routines are invoked. For details, about what's stored in the header, see the definition of the type oh in dbg_mlc.c file.)

## Incremental/Generational Collection

The collector normally interrupts client code for the duration of a garbage collection mark phase. This may be unacceptable if interactive response is needed for programs with large heaps. The collector can also run in a "generational" mode, in which it usually attempts to collect only objects allocated since the last garbage collection. Furthermore, in this mode, garbage collections run mostly incrementally, with a small amount of work performed in response to each of a large number of `GC_malloc` requests.

This mode is enabled by a call to `GC_enable_incremental`.

Incremental and generational collection is effective in reducing pause times only if the collector has some way to tell which objects or pages have been recently modified. The collector uses two sources of information:

1. Information provided by the VM system. This may be provided in one of several forms. Under Solaris 2.X (and potentially under other similar systems) information on dirty pages can be read from the /proc file system. Under other systems (currently SunOS4.X) it is possible to write-protect the heap, and catch the resulting faults. On these systems we require that system calls writing to the heap (other than read) be handled specially by client code. See os_dep.c for details.

2. Information supplied by the programmer. The object is considered dirty
after a call to `GC_end_stubborn_change` provided the library has been compiled suitably. It is typically not worth using for short-lived objects. Note that bugs caused by a missing `GC_end_stubborn_change` or `GC_reachable_here` call are likely to be observed very infrequently and hard to trace.

## Bugs

Any memory that does not have a recognizable pointer to it will be reclaimed. Exclusive-or'ing forward and backward links in a list doesn’t cut it.

Some C optimizers may lose the last undisguised pointer to a memory object as a consequence of clever optimizations. This has almost never been observed in practice.

This is not a real-time collector. In the standard configuration, percentage of time required for collection should be constant across heap sizes. But collection pauses will increase for larger heaps. They will decrease with the number of processors if parallel marking is enabled.

(On 2007 vintage machines, GC times may be on the order of 5 msecs per MB of accessible memory that needs to be scanned and processor. Your mileage may vary.) The incremental/generational collection facility may help in some cases.

## Feedback, Contribution, Questions and Notifications

Please address bug reports and new feature ideas to [GitHub issues](https://github.com/ivmai/bdwgc/issues). Before the submission please check that it has not been done yet by someone else.

If you want to contribute, submit a [pull request](https://github.com/ivmai/bdwgc/pulls) to GitHub.

If you need help, use [Stack Overflow](https://stackoverflow.com/questions/tagged/boehm-gc).

Older technical discussions are available in `bdwgc` mailing list archive - it can be downloaded as a [compressed file](https://github.com/ivmai/bdwgc/files/1038163/bdwgc-mailing-list-archive-2017_04.tar.gz) or browsed at [Narkive](http://bdwgc.opendylan.narkive.com).

To get new release announcements, subscribe to [RSS feed](https://github.com/ivmai/bdwgc/releases.atom).

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usage: test_cpp number-of-iterations

This program tries to test the specific C++ functionality provided by gc_c++.h that isn't tested by the more general test routines of the collector.

A recommended value for number-of-iterations is 10, which will take a few minutes to complete.

**************************************************************************/

1.2880 maven-artifact 3.6.3

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 *
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/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains a floating-point implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

This implementation should be more accurate than either of the integer IDCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

Found in path(s):
/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c

No license file was found, but licenses were detected in source scan.

/jversion.h

Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains software version identification.
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

/*
  jcmarker.c

  Copyright (C) 1991-1998, Thomas G. Lane.
  Modified 2003-2013 by Guido Vollbeding.
  This file is part of the Independent JPEG Group's software.
  For conditions of distribution and use, see the accompanying README file.
*
  This file contains routines to write JPEG datastream markers.
*/

/*
  jdsample.c

  Copyright (C) 1991-1996, Thomas G. Lane.
  Modified 2002-2015 by Guido Vollbeding.
  This file is part of the Independent JPEG Group's software.
  For conditions of distribution and use, see the accompanying README file.
*
  This file contains upsampling routines.
*
  Upsampling input data is counted in "row groups". A row group
  is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
  sample rows of each component. Upsampling will normally produce
  max_v_samp_factor pixel rows from each row group (but this could vary
  if the upsampler is applying a scale factor of its own).

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

*/
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common declarations for the sample applications cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

*/
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c

No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
This file exists to provide a single place to fix any problems with
including the wrong system include files. (Common problems are taken
care of by the standard jconfig symbols, but on really weird systems
you may have to edit this file.)

NOTE: this file is NOT intended to be included by applications using the
JPEG library. Most applications need only include jpeglib.h.

Found in path(s):
*/

/opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
*/

/opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
*  * pool-based allocation and freeing of memory;
*  * policy decisions about how to divide available memory among the
*     virtual arrays;
*  * control logic for swapping virtual arrays between main memory and
*     backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jerror.c
No license file was found, but licenses were detected in source scan.

/
* jcinit.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* 
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* jpeglib.h
* 
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
* 
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpe.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

*/
* jaricom.c
*
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

*/
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
* /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
* /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

/
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
* /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
* *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
* *
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
* *
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
* *
* An excellent reference for image resampling is
* *
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
* *
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
we suggest using an external filtering program such as pnmconvol). When enabled, each input pixel P is replaced by a weighted sum of itself and its eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF, where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                  *
**************************************************************************
*
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its *
* documentation for any purpose and without fee is hereby granted, provided *
* that the above copyright notice appear in all copies and that both that *
* copyright notice and this permission notice appear in supporting *
* documentation. This software is provided "as is" without express or *
* implied warranty.
* *
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of *
* CompuServe Incorporated. GIF(sm) is a Service Mark property of *
* CompuServe Incorporated."
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
 * ckconfig.c
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.
In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,

if (test) {
    then-part;
} else {
    else-part;
}

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot; in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).
5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

/
* jquant2.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

/
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c

No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c

No license file was found, but licenses were detected in source scan.
* JPEG markers.
*

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c

No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
  *djpeg [options] inputfile outputfile
  *djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program.  Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes.  Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided.  The syntax
  *djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
  */opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program.  Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library.  Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions.  The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes.  We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
`jpeg_start_compress(...);`
while (scan lines remain to be written)
`jpeg_write_scanlines(...);`
`jpeg_finish_compress(...);`
Release the JPEG compression object
A JPEG compression object holds parameters and working state for the JPEG library. We make creation/ destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG data streams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

1. Allocate and initialize a JPEG decompression object
2. Specify the source of the compressed data (e.g., a file)
3. Call jpeg_read_header() to obtain image info
4. Set parameters for decompression
5. jpeg_start_decompress(...);
6. while (scan lines remain to be read) jpeg_read_scanlines(...);
7. jpeg_finish_decompress(...);
8. Release the JPEG decompression object

This is comparable to the compression outline except that reading the data stream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression...
or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

**BASIC LIBRARY USAGE**

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Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.
The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.
You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().
3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults();` then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_setDefaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
  cinfo.image_width = Width; /* image width and height, in pixels */
  cinfo.image_height = Height;
  cinfo.input_components = 3;/* # of color components per pixel */
  cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

  jpeg_set_defaults(&cinfo);
  /* Make optional parameter settings here */
```

4. `jpeg_start_compress(...);`

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working
storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   ```c
   jpeg_write_scanlines(...);
   ```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
```
row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image...
dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.
Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use
Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source data stream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated data streams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression.

For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.
If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header().
If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression.
You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width	image width and height, as scaled
output_height
out_color_components	# of color components in out_color_space
output_components	# of color components returned per pixel
colormap	the selected colormap, if any
actual_number_of_colors	# of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You
can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)

The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);
If using the stdio source manager, don’t forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don’t need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
-----------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.
The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG
libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

```c
int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.
```

```c
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).
```

```c
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.
```

```c
jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.
```

Compression parameters (cinfo fields) include:

```c
boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.
```

```c
int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
(required decoder with inverse color transform support, introduced
with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling
jpeg_set_colorspace(), because entropy table assignment in
jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components. If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorsapce() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
`jpeg_set_defaults()` initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. `jpeg_set_defaults()` and
`jpeg_set_colorspace()` set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both `write_JFIF_header` and `write_Adobe_marker`. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBL]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; `jpeg_add_quant_table()`
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBL]
Linear quantization scaling factors (percentage, initialized 100)
for use with `jpeg_default_qtables()`.
See `rdswitch.c` and `cjpeg.c` for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via `jpeg_quality_scaling()`.
Here is an example code which corresponds to `cjpeg -quality` 90,70:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
```
CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```c
   cinfo->comp_info[0].v_samp_factor = 1;
   cinfo->comp_info[0].h_samp_factor = 1;
```

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults();` if you choose not to use that routine, it's up to you to allocate the array.

- **int component_id**
  The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

- **int h_samp_factor**
  **int v_samp_factor**

  Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find...
this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker
The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color
map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:

- JDITHER_NONE: no dithering: fast, very low quality
- JDITHER_ORDERED: ordered dither: moderate speed and quality
- JDITHER_FS: Floyd-Steinberg dither: slow, high quality

Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
-------------------

The JPEG standard itself is "color blind" and doesn't specify any particular
color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB \(\leftrightarrow\) YCbCr and CMYK \(\leftrightarrow\) YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB \(\rightarrow\) YCbCr
- RGB \(\rightarrow\) GRAYSCALE
- RGB \(\rightarrow\) BG_YCC
- YCbCr \(\rightarrow\) GRAYSCALE
- YCbCr \(\rightarrow\) BG_YCC
- CMYK \(\rightarrow\) YCCK

plus the null transforms: GRAYSCALE \(\rightarrow\) GRAYSCALE, RGB \(\rightarrow\) RGB, BG_RGB \(\rightarrow\) BG_RGB, YCbCr \(\rightarrow\) YCbCr, BG_YCC \(\rightarrow\) BG_YCC, CMYK \(\rightarrow\) CMYK, YCCK \(\rightarrow\) YCCK, and UNKNOWN \(\rightarrow\) UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.

JPEG read header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override JPEG read header's guess by setting jpeg_color_space. JPEG read header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. Jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCC => CMYK

as well as the null transforms. (Since GRAYSCALE => RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

**error_exit (j_common_ptr cinfo)**
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.
format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

```
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.
```

```
empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer
reaches zero). In typical applications, it should write out the entire buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it’s not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you’d like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.
You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
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Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted.

The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output.
data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data’s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It’s much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as
more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman
tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
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In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
  adjust output decompression parameters if required
  jpeg_start_output(); /* start a new output pass */
  for (all scanlines in image) {
    jpeg_read_scanlines()
    display scanlines
  }
  jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

while (! jpeg_input_complete(&cinfo))

and the start-output call should read

jpeg_start_output(&cinfo, cinfo.input_scan_number);

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number,
the image is displayed no faster than the current input scan arrives. The
final possibility is to pass a target scan number less than the current input
scan number; this disables the input/output interlock and causes the output
processor to simply display whatever it finds in the image buffer, without
waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance
through the image, jpeg_consume_input() will store data into the buffered
image beyond the point at which the output processing is reading data out
again. If the input arrives fast enough, it may "wrap around" the buffer to
the point where the input is more than one whole scan ahead of the output.
If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower
part of the image is one or more scans better in quality than the upper part.
Then, when the next output scan is started, you have a choice of what target
scan number to use. The recommended choice is to use the current input scan
number at that time, which implies that you've skipped the output scans
corresponding to the input scans that were completed while you processed the
previous output scan. In this way, the decoder automatically adapts its
speed to the arriving data, by skipping output scans as necessary to keep up
with the arriving data.

When using this strategy, you'll want to be sure that you perform a final
output pass after receiving all the data; otherwise your last display may not
be full quality across the whole screen. So the right outer loop logic is
something like this:
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan.
(But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image. Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!) These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quantFixed color cube colormap
- enable_external_quantExternally-supplied colormap
- enable_2pass_quantTwo-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
--------------------------------------------

A JPEG compression or decompression object can be reused to process multiple
images. This saves a small amount of time per image by eliminating the 
"create" and "destroy" operations, but that isn't the real purpose of the 
feature. Rather, reuse of an object provides support for abbreviated JPEG 
datastreams. Object reuse can also simplify processing a series of images in 
a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization 
and Huffman tables. In a situation where many images will be stored or 
transmitted with identical tables, this may represent an annoying overhead. 
The JPEG standard therefore permits tables to be omitted. The standard 
defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode 
  the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or 
  all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams 
  contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) 
into the decoder beforehand. This can be accomplished by reading a separate 
tables-only file. A variant scheme uses a series of images in which the first 
image is an interchange (complete) datastream, while subsequent ones are 
abbreviated and rely on the tables loaded by the first image. It is assumed 
that once the decoder has read a table, it will remember that table until a 
new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate 
the correct tables with an abbreviated image. While abbreviated datastreams 
can be useful in a closed environment, their use is strongly discouraged in 
any situation where data exchange with other applications might be needed. 
Caveat designer.

The JPEG library provides support for reading and writing any combination of 
tables-only datastreams and abbreviated images. In both compression and 
decompression objects, a quantization or Huffman table will be retained for 
the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the 
compressor not to emit some or all of the tables it is using. Each 
quantization and Huffman table struct contains a boolean field "sent_table", 
which normally is initialized to FALSE. For each table used by the image, the 
header-writing process emits the table and sets sent_table = TRUE unless it is 
already TRUE. (In normal usage, this prevents outputting the same table 
definition multiple times, as would otherwise occur because the chroma 
components typically share tables.) Thus, setting this field to TRUE before 
calling jpeg_start_compress() will prevent the table from being written at 
all.
If you want to create a “pure” abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

- create JPEG compression object
- set JPEG parameters
- set destination to tables-only file
  jpeg_write_tables(&cinfo);
- set destination to image file
  jpeg_start_compress(&cinfo, FALSE);
- write data...
  jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.
To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)
For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)
When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data

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Some applications need to supply already-downsampled image data to the JPEG
compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write or
read raw data, bypassing the normal preprocessing or postprocessing steps.
The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same
dimensions.

To compress raw data, you must supply the data in the colorspace to be used
in the JPEG file (please read the earlier section on Special color spaces)
and downsamaled to the sampling factors specified in the JPEG parameters.
You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional
arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one
color component. This structure is necessary since the components are of
different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downsampled row must contain a
multiple of block_size valid samples, and there must be a multiple of
block_size sample rows for each component. (For applications such as
conversion of digital TV images, the standard image size is usually a
multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal
compression, except that you call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do
the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use
real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace()
call is a good idea. Note that since color conversion is bypassed,
in_color_space is ignored, except that jpeg_set_defaults() uses it to
choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and
cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the
dimensions of the data you are supplying, it's wise to set them
explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[\text{cinfo->comp_info[i].width\_in\_blocks*block\_size} \text{ samples per row}\]
\[\text{cinfo->comp_info[i].height\_in\_blocks*block\_size rows in image}\]

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is
\[\text{cinfo->comp\_info[0].h\_samp\_factor = 2 for Y}\]
\[\text{cinfo->comp\_info[0].v\_samp\_factor = 2}\]
\[\text{cinfo->comp\_info[1].h\_samp\_factor = 1 for Cb}\]
\[\text{cinfo->comp\_info[1].v\_samp\_factor = 1}\]
\[\text{cinfo->comp\_info[2].h\_samp\_factor = 1 for Cr}\]
\[\text{cinfo->comp\_info[2].v\_samp\_factor = 1}\]

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downscaled_width = 101 and width_in_blocks = 13 for Y, downscaled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.
You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampling data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in
normal array order (not JPEG zigzag order). The block arrays contain only
DCT blocks containing real data; any entirely-dummy blocks added to fill out
interleaved MCUs at the right or bottom edges of the image are discarded
during reading and are not stored in the block arrays. (The size of each
block array can be determined from the width_in_blocks and height_in_blocks
fields of the component's comp_info entry.) This is also the data format
expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress()
to release the array storage and return the decompression object to an idle
state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return
NULL if it is forced to suspend; a non-NULL return value indicates successful
completion. You need not test for a NULL return value when using a
non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the
decoder's coefficient arrays during a normal decode cycle in buffered-image
mode. This framework might be useful for progressively displaying an incoming
image and then re-encoding it without loss. To do this, decode in buffered-
image mode as discussed previously, then call jpeg_read_coefficients() after
the last jpeg_finish_output() call. The arrays will be available for your use
until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide
the DCT coefficients stored in virtual block arrays. You can either pass
block arrays read from an input JPEG file by jpeg_read_coefficients(), or
allocate virtual arrays from the JPEG compression object and fill them
yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
  * jpeg_write_coefficients()
  * jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg Suppress_tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

--------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don’t want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library’s minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works
with "strip" buffers that are as wide as the image but just a few rows high.
Some operating modes (eg, two-pass color quantization) require full-image
buffers. Such buffers are treated as "virtual arrays": only the current strip
need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no
temporary files are used; virtual arrays are simply malloc()'d. Images bigger
than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors
and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting.
Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular
situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
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A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.
Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.
The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)
Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.
(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.
You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there’s no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don’t need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we’d appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.
The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
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The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be
released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/transupp.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 */
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c

No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jidctint.c

No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c

No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h

No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables fileRead quantization tables from text file
 * -scans fileRead scan script from text file
 * -quality N[,N,...]Set quality ratings
 * -qslots N[,N,...]Set component quantization table selectors
 * -sample HxV[,HxV,...]Set component sampling factors
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c

No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c

No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c

/*

This file contains a command-line user interface for the JPEG compressor.
It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the
compile-time switch TWO_FILE_COMMANDLINE:

cjpeg [options] inputfile outputfile

cjpeg [options] [inputfile]

In the second style, output is always to standard output, which you'd
normally redirect to a file or pipe to some other program. Input is
either from a named file or from standard input (typically redirected).
The second style is convenient on Unix but is unhelpful on systems that
don't support pipes. Also, you MUST use the first style if your system
doesn't do binary I/O to stdin/stdout.

To simplify script writing, the "-outfile" switch is provided. The syntax

cjpeg [options] -outfile outputfile inputfile

works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c

No license file was found, but licenses were detected in source scan.

*/

* jdcoeft.c

* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2002-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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-----------------

Before you start
Configuring the software:
using the automatic "configure" script
using one of the supplied jconfig and makefile files
by hand
Building the software
Testing the software
Installing the software

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c
No license file was found, but licenses were detected in source scan.
Optional stuff
Optimization
Hints for specific systems

BEFORE YOU START
=================

Before installing the software you must unpack the distributed source code.
Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
==========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines;
  if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  ./configure --disable-shared
  If you want to build libjpeg only as a shared library, say
  ./configure --disable-static
  Configure uses GNU libtool to take care of system-dependent shared library building methods.

  * Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  ./configure CC='cc'
  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  ./configure CC='cc -Aa'
  to get HP's compiler to run in ANSI mode.

  * The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  ./configure CFLAGS='-O2'
  if you want to compile without debugging support.

  * Configure will set up the makefile so that "make install" will install files
    into /usr/local/bin, /usr/local/man, etc. You can specify an installation
    prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

  * If you don't have a lot of swap space, you may need to enable the IJG
    software's internal virtual memory mechanism. To do this, give the option
    "--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
    This is discussed in more detail under "Selecting a memory manager", below.
    You probably don't need to worry about this on reasonably-sized Unix machines,
    unless you plan to process very large images.

    Configure has some other features that are useful if you are cross-compiling
    or working in a network of multiple machine types; but if you need those
    features, you probably already know how to use them.

    Configuring the software using one of the supplied jconfig and makefile files
    ------------------------------------------------------------------------------------------------------------------

    If you have one of these systems, you can just use the provided configuration
    files:
Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
----------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that.

ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get cjpeg.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
--------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:

    cjpeg inputfile >outputfile
    cjpeg <inputfile >outputfile
    source program | cjpeg >outputfile

The simpler "two file" command line style is just

    cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
----------------------------

The IJG code is capable of working on images that are too big to fit in main
memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to
process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckenv.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
=====================

As a quick test of functionality we've included a small sample image in several forms:

- testorig.jpg: Starting point for the djpeg tests.
- testimg.ppm: The output of djpeg testorig.jpg
- testimg.bmp: The output of djpeg -bmp -colors 256 testorig.jpg
- testimg.jpg: The output of cjpeg testimg.ppm
- testprog.jpg: Progressive-mode equivalent of testorig.jpg.
- testimgp.jpg: The output of cjpeg -progressive -optimize testimg.ppm

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.
With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
========================

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different
systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a wherever library files go.

If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision.
If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to
supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is
that float DCT results may vary slightly across machines.) To do that, add
"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change
the default, you should redefine JDCT_FASTEST, which is the method selected
by djpeg's -fast switch. Don't forget to update the documentation files
(usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to
define type JCOEF as int rather than short. This will cost a good deal of
memory though, particularly in some multi-pass modes, so don't do it unless
you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE
macro in jmorecfg.h is defined as the keyword that marks a function
inline-able. Some compilers have a switch that tells the compiler to inline
any function it thinks is profitable (e.g., -finline-functions for gcc).
Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler,
and experimenting with any optional optimizations such as loop unrolling.
(Unfortunately, far too many compilers have optimizer bugs ... be prepared to
back off if the code fails self-test.) If you do any experimentation along
these lines, please report the optimal settings to jpeg-info@jpegclub.org so
we can mention them in future releases. Be sure to specify your machine and
compiler version.

HINTS FOR SPECIFIC SYSTEMS

We welcome reports on changes needed for systems not mentioned here. Submit
'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong
about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of
makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o: $(cc) $< $(cflags) -c -o $@'. Remove the
lines \'$\text{RM}) \text{libjpeg.o} \text{ and '}(\text{AR2}) \text{libjpeg.o}' and the \quad \text{\textquote{\texttt{jconfig.h}}}

dependency section.

Copy \texttt{jconfig.txt} to \texttt{jconfig.h}. Edit \texttt{jconfig.h} to define \texttt{TWO\_FILE\_COMMANDLINE}
and \texttt{CHAR\_IS\_unsigned}.

Run the makefile using \texttt{!AMU} not \texttt{!Make}. If you want to use the \texttt{\textquote{\texttt{clean}} and \textquote{\texttt{test}}} makefile entries then you will have to fiddle with the syntax a bit
and rename the test files.

\textbf{Amiga:}

\texttt{SAS C 6.50} reportedly is too buggy to compile the \texttt{IJG} code properly.
\texttt{A patch to update to 6.51 is available from SAS or AmiNet FTP sites.}

The supplied config files are set up to use \texttt{jmemname.c} as the memory
manager, with temporary files being created on the device named by
\quad \texttt{"JPEGTMP:"}.

\textbf{Atari ST/STE/TT:}

Copy the project files \texttt{makcjpeg.st}, \texttt{makdjpeg.st}, \texttt{maktjpeg.st}, and \texttt{makljpeg.st}
to \texttt{cjpeg.prj}, \texttt{djpeg.prj}, \texttt{jpegtran.prj}, and \texttt{libjpeg.prj} respectively. The
project files should work as-is with Pure C. For Turbo C, change library
filenames \texttt{"pc..."} to \texttt{"tc..."} in each project file. Note that \texttt{libjpeg.prj}
selects \texttt{jmemansi.c} as the recommended memory manager. You'll probably want to
adjust the \texttt{DEFAULT\_MAX\_MEM} setting --- you want it to be a couple hundred K
less than your normal free memory. Put \texttt{"\#define DEFAULT\_MAX\_MEM nnnn"} into
\texttt{jconfig.h} to do this.

To use the \texttt{68881/68882} coprocessor for the floating point DCT, add the
compiler option \texttt{"-8"} to the project files and replace \texttt{pcfltlib.lib} with
\texttt{pc881lib.lib in cjpeg.prj and djpeg.prj}. Or if you don't have a
coprocessor, you may prefer to remove the float DCT code by undefining
DCT\_FLOAT\_SUPPORTED in \texttt{jmorecfg.h} (since without a coprocessor, the float
code will be too slow to be useful). In that case, you can delete
\texttt{pcfltlib.lib} from the project files.

Note that you must make \texttt{libjpeg.lib} before making \texttt{cjpeg.ttp}, \texttt{djpeg.ttp},
or \texttt{jpegtran.ttp}. You'll have to perform the self-test by hand.

We haven't bothered to include project files for \texttt{rdjpgcom} and \texttt{wrjpgcom}.
Those source files should just be compiled by themselves; they don't
depend on the JPEG library. You can use the \texttt{default.prj} project file
of the Pure C distribution to make the programs.
There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading "#pragma novector" just before the loop

for (i = 1; i <= (int) htbl->bits[I]; i++)
    huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.


2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)

NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part
of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)
The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library’s far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.
MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character "#" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default.
This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__
/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE
/* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```c
#define MAX_ALLOCChunk 65520L /* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.)

jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions
for a 16-bit DLL are:
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type, methodname, arglist) static(type)(_far _pascal (*methodname)arglist) \
# define GLOBAL(type) methodname(arglist)
For a 32-bit DLL you may want something like
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
} Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"?)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" \{ ... \} around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile vs setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile vs test-build
5. Move the application .exe files from `app\Release` to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG
library as a static Win32 library, and application makefiles that build
the sample applications as Win32 console applications. (Even if you only
want the library, we recommend building the applications so that you can
run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and
execute the command line
   NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than
      2017 (v15), you'll probably get a message saying
      that the project files are being updated.
   b) If necessary, open the project properties and
      adapt the Windows Target Platform Version in
      the Configuration Properties, General section;
      we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app\Release to an
   appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need
to back off the optimization switch settings. See the comments in
makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
   ./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the
stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2"
reportedly speeds up the float DCT method substantially, enough to make it
faster than the default int method (but still slower than the fast int
method). If you use -mips2, you may want to alter the default DCT method to
be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.
On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

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(ie, box filtering), we can save some work in color conversion by
calculating all the output pixels corresponding to a pair of chroma
samples at one time. In the conversion equations

\[ R = Y + K1 \times Cr \]
\[ G = Y + K2 \times Cb + K3 \times Cr \]
\[ B = Y + K4 \times Cb \]

* only the \( Y \) term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.

This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
  * the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)

/*

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
* Note that jmemmac.c depends on two features of MacOS that were first
  introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
  and the jpeg library decides it needs a temporary file, it will abort,
  printing error messages about requiring System 7. (If no temporary files
  are created, it will run fine.)
* If you want to use jmemmac.c in an application that might be used with
  System 6 or earlier, then you should remove dependencies on FindFolder
  and the FSSpec calls. You will need to replace FindFolder with some
  other mechanism for finding a place to put temporary files, and you
  should replace the FSSpec calls with their HFS equivalents:
*  FSpDelete  ->  HDelete
*  FSpGetFInfo ->  HGetFInfo
*  FSpCreate  ->  HCreate
*  FSpOpenDF  ->  HOpen     *** Note: not HOpenDF ***
*  FSMakeFSSpec -> (fill in spec by hand.)
*  (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
  which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
  ages-old problem of names starting with a period.)
*  Contributed by Sam Bushell (jsam@iagu.on.net) and
  Dan Gildor (gyld@in-touch.com).
*
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

/*
 */

* jdmainct.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
  post-processor; it holds downsampled data in the JPEG colorspace.
* Note that this code is bypassed in raw-data mode, since the application
  supplies the equivalent of the main buffer in that case.
*/
/*
 * jdinput.c
 * 
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

/*
 * wrrle.c
 * 
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 * 
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * 
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

/*
 * jmemsys.h
 */
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide FDCT routines with various input sample block sizes for
 * direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jdtrans.c
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemansi.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a simple generic implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that you have the ANSI-standard library routine tmpfile().
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 */
This implementation should be more accurate than either of the integer DCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

This file contains optional default-setting code for the JPEG compressor. Applications do not have to use this file, but those that don't use it must know a lot more about the innards of the JPEG code.

This file is part of the Independent JPEG Group's software. For conditions of distribution and use, see the accompanying README file.

This file contains optional default-setting code for the JPEG compressor. Applications do not have to use this file, but those that don't use it must know a lot more about the innards of the JPEG code.
/*
 * jdcolor.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#undef void char *

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
#undef const *

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H
/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, */
/* but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the */
/* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in */
/* <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, */
/* unless you are using a large-data memory model or 80386 flat-memory mode. */
/* On less brain-damaged CPUs this symbol must not be defined. */
/* (Defining this symbol causes large data structures to be referenced through */
/* "far" pointers and to be allocated with a special version of malloc.) */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less */
/* than the first 15 characters. */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to */
/* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI */
/* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, */
/* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you */
/* actually get "missing structure definition" warnings or errors while */
/* compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif /* in case these macros already exist */
#define FALSE0/* values of boolean */
#endif /* in case these macros already exist */
#define TRUE
#define TRUE
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#endif /* JPEG_INTERNALS */

#ifndef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifndef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE
/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrbmp.c
No license file was found, but licenses were detected in source scan.

*/
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)
Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling
can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct
jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master
control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
              |               |
------------------ controller ------------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller --|
```
This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.
* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.
*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
  |-- Coefficient controller --|
     |-- Dequantize, Inverse DCT
Main controller --|
     |-- Upsampling
     |-- Postprocessing controller --|   |-- Colorspace conversion
     |   |-- Color quantization
     |   |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.
* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream
or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new
The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines
where malloc() cannot allocate chunks larger than 64K.

* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```c
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components) *(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF;  
typedef JCOEF JBLOCK[ DCTSIZE2 ];  
typedef JBLOCK * JBLOCKROW;  
typedef JBLOCKROW * JBLOCKARRAY;  
typedef JBLOCKARRAY * JBLOCKIMAGE;
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy
codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the
The codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (i.e., the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.
In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by
In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn’t a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don’t bother to factor in the space needed for small objects, on the grounds that it isn’t worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while
reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner’s output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won’t be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan.
The would solve the space problems if the overestimate wasn’t too great. However, it implies that you don’t even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor’s Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient.
Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For
this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt
No license file was found, but licenses were detected in source scan.

*/
* jmorecfg.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h
No license file was found, but licenses were detected in source scan.

*/
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

IJC JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
=================

Include files:

- jpeglib.h: JPEG library's exported data and function declarations.
- jconfig.h: Configuration declarations. Note: this file is not present
  in the distribution; it is generated during installation.
- jmorecfg.h: Additional configuration declarations; need not be changed
  for a standard installation.
- jerror.h: Declares JPEG library's error and trace message codes.
- jinclude.h: Central include file used by all IJG .c files to reference
  system include files.
- jpegint.h: JPEG library's internal data structures.
- jdct.h: Private declarations for forward & reverse DCT subsystems.
- jmemsys.h: Private declarations for memory management subsystem.
- jversion.h: Version information.

Applications using the library should include jpeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The
other include files are intended for internal use and would not normally
be included by an application program. (cjpeg/djpeg/etc do use jinclude.h,
since its function is to improve portability of the whole IJG distribution.
Most other applications will directly include the system include files they
want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by
an application program:

- jcapimin.c: Application program interface: core routines for compression.
- jcapistd.c: Application program interface: standard compression.
jdapimin.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jpccparam.c Compression parameter setting helper routines.
jctrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcppreproc.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmaint.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jdctmgr.c DCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap. Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.
Support files for both compression and decompression:

jaricom.c: Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c: Standard error handling routines (application replaceable).
jmemmgr.c: System-independent (more or less) memory management code.
jutils.c: Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmenobs.c: "No backing store": assumes adequate virtual memory exists.
jmenansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm: 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

C source code files:

cjpeg.c: Main program for cjpeg.
djpeg.c: Main program for djpeg.
jpegtran.c: Main program for jpegtran.
cjpeg.c: Utility routines used by all three programs.
rdcolmap.c: Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c: Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rdppm.c PPM/PGM file input.
rdrlc.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrrlc.c Utah RLE file output.
wtarga.c Targa file output.

RDJPgCOM/WRJPgCOM
==================

C source code files:

rdjpcom.c Stand-alone rdjpcom application.
wrjpcom.c Stand-alone wrjpcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
decomp
missing
ar-lib
compile
install-shInstall shell script for those Unix systems lacking one.
Makefile.inMakefile input for configure.
Makefile.amSource file for use with Automake to generate Makefile.in.
cycconfig.cProgram to generate jconfig.h on non-Unix systems.
jconfig.txtTemplate for making jconfig.h by hand.
mak*.*Sample makefiles for particular systems.
jconfig.*Sample jconfig.h for particular systems.
libjpeg.mapScript to generate shared library with versioned symbols.
libjpeg.pc.inlibjpeg.pc pkg-config file input for configure.
aclocal.m4M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.*Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * jcmaint.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmaint.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/ *
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines.
  * Both sequential and progressive modes are supported in this single module.
  *
  * Much of the complexity here has to do with supporting output suspension.
  * If the data destination module demands suspension, we want to be able to
  * back up to the start of the current MCU. To do this, we copy state
  * variables into local working storage, and update them back to the
  * permanent JPEG objects only upon successful completion of an MCU.
  *
  * We do not support output suspension for the progressive JPEG mode, since
  * the library currently does not allow multiple-scan files to be written
  * with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

/ *
* rdbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in Microsoft "BMP"
  * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
  * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
  * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
  * Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.

/*

*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
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The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

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This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(previously known as JPEG, together with ITU-T SG16).
DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
               rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpe" and "djpe", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpe" and "wrijpe", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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software".

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assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent (now expired), GIF reading
support has been removed altogether, and the GIF writer has been simplified
to produce "uncompressed GIFs". This technique does not use the LZW
algorithm; the resulting GIF files are larger than usual, but are readable
by all standard GIF decoders.
REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing” and has document


I.J.G JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2.


The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftpsgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. I.J.G does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iig.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although I.J.G's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.iig.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iig.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.iig.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the jig.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

================
The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet.

People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the
foreclosed institutions and corporations. IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was. The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable. IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/README
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/*
 * j dct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jc d c mgr.c, j d c tmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h
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 * jdatadst.c
 *
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 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

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* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
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 * cderror.h
 *
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 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

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* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h
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/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 */
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
  suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c

1.2883 mpfr 3.1.2-1

1.2883.1 Available under license:

MPFR was downloaded from http://www.mpfr.org/.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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changes were used in the work (which must be distributed under
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uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit/org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util
  org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
September 29, 2017
1.2897 unzip 6.0-9ubuntu1.5

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.2898 xdg-utils 1.1.0 0.17.20120809git.el7
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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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the Free Software Foundation; either version 2 of the License, or
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

   Gnomovision version 69, Copyright (C) 19yy name of author
   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it
   under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

   Yoyodyne, Inc., hereby disclaims all copyright interest in the program
   `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language.  (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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specified in Subsection 6a, above, for a charge no more
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Appendix: How to Apply These Terms to Your New Libraries

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States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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@example
one line to give the library's name and an idea of what it does.
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1.2931 mysql 5.5.62-0ubuntu0.14.04.1

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'#-------------------------------------------------------------------------------BS_STVARS_040_01#-------------------------------------------------------------------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_02#-------------------------------------------------------------------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_03#-------------------------------------------------------------------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_04#-------------------------------------------------------------------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_05#-------------------------------------------------------------------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string
#
# Creation Date: 2008-02-07
# Author : Sharique Abdullah
#
# Description: Test Cases of Dynamic System Variable license
# that checks the behavior of this variable in the following ways
# * Value Check
# * Scope Check
#
#
--echo '#---------------------BS_STVARS_040_01----------------------#'
--echo 1 Expected

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;

--echo '#---------------------BS_STVARS_040_02----------------------#'

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'

# Check if the value in GLOBAL Table matches value in variable #

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'

# Check if accessing variable with and without GLOBAL point to same variable #

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'

# Check if license can be accessed with and without @@ sign #

SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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1.2936 gperftools 2.1-2ubuntu1.1
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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That’s all there is to it!

1.2942 perl-lwp-mediatypes 6.02-2.el7

1.2942.1 Available under license:

No license file was found, but licenses were detected in source scan.

# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.
#
# MIME type (lowercased)Extensions
# ==================================================================================
# application/1d-interleaved-parityfec
# application/3gpp-ims+xml
# application/activemessage
# application/andrew-insetez
# application/applefile
# application/applixwareaw
# application/atom+xml
# application/atomcat+xml
# application/atomicmail
# application/atomsvc+xml
# application/auth-policy+xml
# application/batch-smtp
# application/beep+xml
# application/cals-1840
# application/ccxml+xml
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/ipfix	nipfix
# application/ipp
# application/isup
application/java-archive	njar
application/java-serialized-object	tsser
application/java-vm	nclass
application/javascript	njs
application/json	njson
# application/kpml-request+xml
# application/kpml-response+xml
application/lost+xml	nlostxml
application/mac-binhex40	hqx
application/mac-compactpro	scpt
# application/macwriteii
application/mads+xml
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application/mrcx
# application/mathematica
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application/mathml-presentation+xml
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# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-envelope+xml
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# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword		doc dot
application/mxf				mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream	bin dms lha lrf lzh so iso dmg dist distz pkg bpk dump elc deploy
application/odaoda
application/oebps-package+xmllopf
application/oggogx
application/onenoteonetoc onetoc2 onetmp onepkg
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application/pdfpdf
application/pgp-encryptedpgp
# application/pgp-keys
application/pgp-signatureasc sig
application/pics-rulesprf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10p10
application/pkcs7-mimep7mp7c
application/pkcs7-signaturep7s
application/pkcs8p8
application/pkix-attr-certac
application/pkix-certcer
application/pkix-crlcrl1
application/pkix-pkipathpkipath
application/pkixcmpppki
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# application/prs.plucker
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# application/vnd.dvb.iptrv.daffec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
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# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
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# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enlivenmml
application/vnd.epson.esfesf
application/vnd.epson.msmsf
application/vnd.epson.quickanimeqam
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# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
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# application/vnd.oma.bcast.smartcard-trigger+xml
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# application/vnd.oma.bcast.stkm
# application/vnd.oma.cab-address-book+xml
# application/vnd.oma.cab-pcc+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
application/vnd.openoffice.org.extension
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# application/vnd.xmpie.xlim
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# application/wordperfect5.1
application/wsdl+xml
application/wspolicy+xml
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application/x-abiword
application/x-ace-compressed
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application/x-authorware-mapam
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application/x-bcpio
application/x-bittorrenttorrent
application/x-bzip
application/x-bzip2
application/x-cdlink
application/x-chess-pgn
# application/x-compress
application/x-chfix
application/x-chsh
application/x-debian-packagedeb udeb
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<td>#application/x-font-dos</td>
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# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
# audio/dvi4
# audio/eac3
# audio/evrc
# audio/evrc-qcp
# audio/evrc0
# audio/evrc1
# audio/evrcb
# audio/evrcb0
# audio/evrcb1
# audio/evrcwb
# audio/evrcwb0
# audio/evrcwb1
# audio/example
# audio/g719
# audio/g722
# audio/g7221
# audio/g723
# audio/g726-16
# audio/g726-24
# audio/g726-32
# audio/g726-40
# audio/g728
# audio/g729
# audio/g7291
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# audio/gsm-efr
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audio/midi					mid midi kar rmi
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audio/mp4mp4a
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# audio/mpa-robust
audio/mpegmpga mp2 mp2a mp3 m2a m3a
# audio/mpeg4-generic
audio/oggoga ogg spx
# audio/parityfec
# audio/pcm
# audio/pcma-wb
# audio/pcm-wb
# audio/pcm
# audio/prs.sid
# audio/qcelp
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtx
# audio/smv
# audio/smv0
# audio/smv-qcp
# audio/sp-midi
# audio/speex
# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmlles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audiouva uvva
audio/vnd.digital-windseol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2

Open Source Used In Tetration 3.5.1 31204
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dra
daudio/vnd.dts
daudio/vnd.dts.hd
dtshd
# audio/vnd.everad.plj
# audio/vnd.hns.audio
audio/vnd.lucent.voice
lvp
audio/vnd.ms-playready.media.pya
pya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
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ecelp4800
audio/vnd.nuera.ecelp7400
ecelp7470
audio/vnd.nuera.ecelp9600
ecelp9600
# audio/vnd.octet.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.rip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webmweba
audio/x-aacac
audio/x-aiff aiff aifc
audio/x-mpegurlm3u
audio/x-ms-waxwax
audio/x-ms-wmawma
audio/x-pn-realaudio
ra
audio/x-pn-realaudio-plugin
audio/x-wavwav
chemical/x-cdxcdx
chemical/x-cifcif
chemical/x-cmdfcmdf
chemical/x-cmlcml
chemical/x-csmcsmcl
# chemical/x-pdb
chemical/x-xyzxyz
image/bmpbmp
image/cgmegm
# image/example
# image/fits
image/g3faxg3
image/gifgif
image/iefief
# image/jp2
image/jpegjpeg jpg jpe
image/x-xpixmap
image/x-xwindowdump
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/mdn+xml
# message/news
# message/partial
message/rfc822 mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# model/example
model/igesigs iges
model/meshmesh silo
model/vnd.collada+xml dae
model/vnd.dwf dwf
# model/vnd.flatland.3dml
model/vnd.gdl gdl
# model/vnd.gs-gdl
# model/vnd.gs-gdl
model/vnd.gtw gtw
# model/vnd.moml+xml
model/vnd.mts mts
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
model/vnd.vtu vtu
model/vrml wrl vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# video/mpeg4-generic
# video/mpv
# video/nv
video/oggogv
# video/parityfec
# video/pointer
video/quicktimeqt mov
# video/raw
# video/rtp-enc-aescm128
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
video/vnd.dece.hdvh uvvh
video/vnd.dece.mobileuvvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pduvp uvvp
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# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.fvtfvt
# video/vnd.hns.video
# video/vnd.iptvforum.1dparityfec-1010
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# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
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video/vnd.ms-playready.media.pyvpyv
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# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4uvu uvvu
video/vnd.vivoviv
video/webmwebm
video/x-f4v4f4v
video/x-flifli
video/x-flvf1v
NAME
LWP::MediaTypes - guess media type for a file or a URL

SYNOPSIS
use LWP::MediaTypes qw(guess_media_type);
$type = guess_media_type("/tmp/foo.gif");

DESCRIPTION
This module provides functions for handling media (also known as MIME) types and encodings. The mapping from file extensions to media types is defined by the media.types file. If the ~/.media.types file exists it is used instead. For backwards compatibility we will also look for ~/.mime.types.

The following functions are exported by default:

guess_media_type( $filename )
guess_media_type( $uri )
guess_media_type( $filename_or_uri, $header_to_modify )

This function tries to guess media type and encoding for a file or a URI. It returns the content type, which is a string like `"text/html"'. In array context it also returns any content encodings applied (in the order used to encode the file). You can pass a URI object reference, instead of the file name.

If the type can not be deduced from looking at the file name, then guess_media_type() will let the `~T' Perl operator take a look. If this works (and `~T' returns a TRUE value) then we return *text/plain* as the type, otherwise we return *application/octet-stream* as the type.

The optional second argument should be a reference to a
HTTP::Headers object or any object that implements the $obj->header method in a similar way. When it is present the values of the 'Content-Type' and 'Content-Encoding' will be set for this header.

media_suffix( $type, ... )
This function will return all suffixes that can be used to denote the specified media type(s). Wildcard types can be used. In a scalar context it will return the first suffix found. Examples:

```perl
@suffixes = media_suffix('image/*', 'audio/basic');
$suffix = media_suffix('text/html');
```

The following functions are only exported by explicit request:

add_type( $type, @exts )
Associate a list of file extensions with the given media type. Example:

```perl
add_type("x-world/x-vrml" => qw(wrl vrml));
```

add_encoding( $type, @ext )
Associate a list of file extensions with an encoding type. Example:

```perl
add_encoding("x-gzip" => "gz");
```

read_media_types( @files )
Parse media types files and add the type mappings found there. Example:

```perl
read_media_types("conf/mime.types");
```

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Found in path(s):
* /opt/cola/permits/1111462827_1606928113.44/0/perl-LWP-MediaTypes-6.02-2.el7-1.src.rpm-cosi-expand-archive-mY6ihrWl/LWP-MediaTypes-6.02.tar.gz-cosi-expand-archive-H9PiFsbK/LWP-MediaTypes-6.02/README
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license: perl

Found in path(s):
* /opt/cola/permits/1111462827_1606928113.44/0/perl-LWP-MediaTypes-6.02-2.el7-1.src.rpm-cosi-expand-archive-mY6ihrWl/LWP-MediaTypes-6.02.tar.gz-cosi-expand-archive-H9PiFsbK/LWP-MediaTypes-
NAME

LWP::MediaTypes - guess media type for a file or a URL

SYNOPSIS

use LWP::MediaTypes qw(guess_media_type);
ertype = guess_media_type("/tmp/foo.gif");

DESCRIPTION

This module provides functions for handling media (also known as
MIME) types and encodings. The mapping from file extensions to media
types is defined by the F<media.types> file. If the F<~/.media.types>
file exists it is used instead.
For backwards compatibility we will also look for F<~/.mime.types>.

The following functions are exported by default:

over 4

item guess_media_type( $filename )

item guess_media_type( $uri )

item guess_media_type( $filename_or_uri, $header_to_modify )

This function tries to guess media type and encoding for a file or a URL.
It returns the content type, which is a string like C<"text/html">.
In array context it also returns any content encodings applied (in the
order used to encode the file). You can pass a URI object
reference, instead of the file name.

If the type can not be deduced from looking at the file name,
then guess_media_type() will let the C<-T> Perl operator take a look.
If this works (and C<-T> returns a TRUE value) then we return
I<text/plain> as the type, otherwise we return
I<application/octet-stream> as the type.

The optional second argument should be a reference to a HTTP::Headers
object or any object that implements the $obj->header method in a
similar way. When it is present the values of the
'Content-Type' and 'Content-Encoding' will be set for this header.

item media_suffix( $type, ... )
This function will return all suffixes that can be used to denote the specified media type(s). Wildcard types can be used. In a scalar context it will return the first suffix found. Examples:

```perl
@suffixes = media_suffix('image/*', 'audio/basic');
$suffix = media_suffix('text/html');
```

The following functions are only exported by explicit request:

```perl
=item add_type( $type, @exts )
```

Associate a list of file extensions with the given media type.
Example:

```
add_type("x-world/x-vrml" => qw(wrl vrml));
```

```perl
=item add_encoding( $type, @ext )
```

Associate a list of file extensions with an encoding type.
Example:

```
add_encoding("x-gzip" => "gz");
```

```perl
=item read_media_types( @files )
```

Parse media types files and add the type mappings found there.
Example:

```
read_media_types("conf/mime.types");
```

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Found in path(s):

* /opt/cola/permits/1111462827_1606928113.44/0/perl-LWP-MediaTypes-6.02-2.el7-1.src.rpm-cosi-expand-archive-mY6ihrWl/LWP-MediaTypes-6.02.tar.gz-cosi-expand-archive-H9PiFsbK/LWP-MediaTypes-6.02/lib/LWP/MediaTypes.pm
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Found in path(s):
* /opt/cola/permits/1111462827_1606928113.44/0/perl-LWP-MediaTypes-6.02-2.el7-1.src.rpm-cosi-expand-archive-mY6ilhrWl/perl-LWP-MediaTypes.spec

1.2943 pixman 0.32.8 1.el6

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1.2944 perl-mozilla-ca 20130114-5.el7

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1.2945 perl-libwww-perl 6.05-2.el7

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=head1 NAME

lwp-request, GET, POST, HEAD - Simple command line user agent

=head1 SYNOPSIS

B<lwp-request> [B<-afPuUsSedvhx>] [B<-m> I<method>] [B<-b> I<base URL>] [B<-t> I<timeout>] [B<-i> I<if-modified-since>] [B<-c> I<content-type>] [B<-C> I<credentials>] [B<-p> I<proxy-url>] [B<-o> I<format>] I<url>...

=head1 DESCRIPTION

This program can be used to send requests to WWW servers and your local file system. The request content for POST and PUT methods is read from stdin. The content of the response is printed on stdout. Error messages are printed on stderr. The program returns a status value indicating the number of URLs that failed.
The options are:

=over 4

=item -m <method>

Set which method to use for the request. If this option is not used, then the method is derived from the name of the program.

=item -f

Force request through, even if the program believes that the method is illegal. The server might reject the request eventually.

=item -b <uri>

This URI will be used as the base URI for resolving all relative URIs given as argument.

=item -t <timeout>

Set the timeout value for the requests. The timeout is the amount of time that the program will wait for a response from the remote server before it fails. The default unit for the timeout value is seconds. You might append "m" or "h" to the timeout value to make it minutes or hours, respectively. The default timeout is '3m', i.e. 3 minutes.

=item -i <time>

Set the If-Modified-Since header in the request. If I<time> is the name of a file, use the modification timestamp for this file. If I<time> is not a file, it is parsed as a literal date. Take a look at L<HTTP::Date> for recognized formats.

=item -c <content-type>

Set the Content-Type for the request. This option is only allowed for requests that take a content, i.e. POST and PUT. You can force methods to take content by using the C<-f> option together with C<-c>. The default Content-Type for POST is C<application/x-www-form-urlencoded>. The default Content-type for the others is C<text/plain>.

=item -p <proxy-url>

Set the proxy to be used for the requests. The program also loads proxy settings from the environment. You can disable this with the C<-P> option.
=item -P

Don't load proxy settings from environment.

=item -H <header>

Send this HTTP header with each request. You can specify several, e.g.:

   lwp-request \  
   -H 'Referer: http://other.url/' \  
   -H 'Host: somehost' \  
   http://this.url/

=item -C <username>:<password>

Provide credentials for documents that are protected by Basic Authentication. If the document is protected and you did not specify the username and password with this option, then you will be prompted to provide these values.

=back

The following options controls what is displayed by the program:

=over 4

=item -u

Print request method and absolute URL as requests are made.

=item -U

Print request headers in addition to request method and absolute URL.

=item -s

Print response status code. This option is always on for HEAD requests.

=item -S

Print response status chain. This shows redirect and authorization requests that are handled by the library.

=item -e

Print response headers. This option is always on for HEAD requests.
=item -E

Print response status chain with full response headers.

=item -d

Do B<not>print the content of the response.

=item -o <format>

Process HTML content in various ways before printing it. If the content type of the response is not HTML, then this option has no effect. The legal format values are: I<text>, I<ps>, I<links>, I<html> and I<dump>.

If you specify the I<text> format then the HTML will be formatted as plain latin1 text. If you specify the I<ps> format then it will be formatted as Postscript.

The I<links> format will output all links found in the HTML document. Relative links will be expanded to absolute ones.

The I<html> format will reformat the HTML code and the I<dump> format will just dump the HTML syntax tree.

Note that the C<HTML-Tree> distribution needs to be installed for this option to work. In addition the C<HTML-Format> distribution needs to be installed for I<-o text> or I<-o ps> to work.

=item -v

Print the version number of the program and quit.

=item -h

Print usage message and quit.

=item -a

Set text(ascii) mode for content input and output. If this option is not used, content input and output is done in binary mode.

=back

Because this program is implemented using the LWP library, it will only support the protocols that LWP supports.

=head1 SEE ALSO
=head1 COPYRIGHT

Copyright 1995-1999 Gisle Aas.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

=cut

Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-uwAvwflT/libwww-perl-6.05.tar.gz-cosi-expand-archive-qqc8tjsQ/libwww-perl-6.05/bin/lwp-request
No license file was found, but licenses were detected in source scan.

=head1 NAME

LWP::Protocol - Base class for LWP protocols

=head1 SYNOPSIS

package LWP::Protocol::foo;
require LWP::Protocol;
@ISA=qw(LWP::Protocol);

=head1 DESCRIPTION

This class is used a the base class for all protocol implementations supported by the LWP library.

When creating an instance of this class using C<LWP::Protocol::create($url)>, and you get an initialised subclass appropriate for that access method. In other words, the LWP::Protocol::create() function calls the constructor for one of its subclasses.

All derived LWP::Protocol classes need to override the request() method which is used to service a request. The overridden method can make use of the collect() function to collect together chunks of data as it is received.

The following methods and functions are provided:
=over 4

=item $prot = LWP::Protocol->new()

The LWP::Protocol constructor is inherited by subclasses. As this is a virtual base class this method should not be called directly.

=item $prot = LWP::Protocol::create($scheme)

Create an object of the class implementing the protocol to handle the given scheme. This is a function, not a method. It is more an object factory than a constructor. This is the function user agents should use to access protocols.

=item $class = LWP::Protocol::implementor($scheme, [$class])

Get and/or set implementor class for a scheme. Returns " if the specified scheme is not supported.

=item $prot->request(…)

$response = $protocol->request($request, $proxy, undef);
$response = $protocol->request($request, $proxy, '/tmp/sss');
$response = $protocol->request($request, $proxy, \&callback, 1024);

Dispatches a request over the protocol, and returns a response object. This method needs to be overridden in subclasses. Refer to L<LWP::UserAgent> for description of the arguments.

=item $prot->collect($arg, $response, $collector)

Called to collect the content of a request, and process it appropriately into a scalar, file, or by calling a callback. If $arg is undefined, then the content is stored within the $response. If $arg is a simple scalar, then $arg is interpreted as a file name and the content is written to this file. If $arg is a reference to a routine, then content is passed to this routine.

The $collector is a routine that will be called and which is responsible for returning pieces (as ref to scalar) of the content to process. The $collector signals EOF by returning a reference to an empty sting.

The return value from collect() is the $response object reference.

B<Note:> We will only use the callback or file argument if $response->is_success(). This avoids sending content data for
redirects and authentication responses to the callback which would be confusing.

=item $prot->collect_once($arg, $response, $content)

Can be called when the whole response content is available as $content. This will invoke collect() with a collector callback that returns a reference to $content the first time and an empty string the next.

=back

=head1 SEE ALSO

Inspect the F<LWP/Protocol/file.pm> and F<LWP/Protocol/http.pm> files for examples of usage.

=head1 COPYRIGHT

Copyright 1995-2001 Gisle Aas.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-uwAvwflT/libwww-perl-6.05.tar.gz-cosi-expand-archive-qqe8tjsQ/libwww-perl-6.05/lib/LWP/Protocol.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-uwAvwflT/perl-libwww-perl.spec
No license file was found, but licenses were detected in source scan.

Copyright (c) 2002 James Tillman. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-uwAvwflT/libwww-perl-6.05.tar.gz-cosi-expand-archive-qqe8tjsQ/libwww-perl-6.05/lib/LWP/Authen/Ntlm.pm
No license file was found, but licenses were detected in source scan.

=encoding utf-8

=head1 NAME
LWP - The World-Wide Web library for Perl

=head1 SYNOPSIS

use LWP;
print "This is libwww-perl-$LWP::VERSION\n";

=head1 DESCRIPTION

The libwww-perl collection is a set of Perl modules which provides a simple and consistent application programming interface (API) to the World-Wide Web. The main focus of the library is to provide classes and functions that allow you to write WWW clients. The library also contain modules that are of more general use and even classes that help you implement simple HTTP servers.

Most modules in this library provide an object oriented API. The user agent, requests sent and responses received from the WWW server are all represented by objects. This makes a simple and powerful interface to these services. The interface is easy to extend and customize for your own needs.

The main features of the library are:

=over 3

=item *
Contains various reusable components (modules) that can be used separately or together.

=item *
Provides an object oriented model of HTTP-style communication. Within this framework we currently support access to http, https, gopher, ftp, news, file, and mailto resources.

=item *
Provides a full object oriented interface or a very simple procedural interface.

=item *
Supports the basic and digest authorization schemes.
Supports transparent redirect handling.

Supports access through proxy servers.

Provides parser for \texttt{robots.txt} files and a framework for constructing robots.

Supports parsing of HTML forms.

Implements HTTP content negotiation algorithm that can be used both in protocol modules and in server scripts (like CGI scripts).

Supports HTTP cookies.

Some simple command line clients, for instance \texttt{lwp-request} and \texttt{lwp-download}.

The \texttt{libwww-perl} library is based on HTTP style communication. This section tries to describe what that means.

Let us start with this quote from the HTTP specification document:

\texttt{http://www.w3.org/Protocols/}:

The HTTP protocol is based on a request/response paradigm. A client establishes a connection with a server and sends a request to the
server in the form of a request method, URI, and protocol version, followed by a MIME-like message containing request modifiers, client information, and possible body content. The server responds with a status line, including the message's protocol version and a success or error code, followed by a MIME-like message containing server information, entity meta-information, and possible body content.

What this means to libwww-perl is that communication always take place through these steps: First a \texttt{<request>} object is created and configured. This object is then passed to a server and we get a \texttt{<response>} object in return that we can examine. A request is always independent of any previous requests, i.e. the service is stateless. The same simple model is used for any kind of service we want to access.

For example, if we want to fetch a document from a remote file server, then we send it a request that contains a name for that document and the response will contain the document itself. If we access a search engine, then the content of the request will contain the query parameters and the response will contain the query result. If we want to send a mail message to somebody then we send a request object which contains our message to the mail server and the response object will contain an acknowledgment that tells us that the message has been accepted and will be forwarded to the recipient(s).

It is as simple as that!

=head2 The Request Object

The libwww-perl request object has the class name \texttt{C<HTTP::Request>}. The fact that the class name uses \texttt{C<HTTP::>} as a prefix only implies that we use the HTTP model of communication. It does not limit the kind of services we can try to pass this \texttt{<request>} to. For instance, we will send \texttt{C<HTTP::Request>}s both to ftp and gopher servers, as well as to the local file system.

The main attributes of the request objects are:

=over 3

=item *

\texttt{B<method>} is a short string that tells what kind of request this is. The most common methods are \texttt{B<GET>}, \texttt{B<PUT>}, \texttt{B<POST>} and \texttt{B<HEAD>}. 


B<uri> is a string denoting the protocol, server and the name of the "document" we want to access. The B<uri> might also encode various other parameters.

B<headers> contains additional information about the request and can also be used to describe the content. The headers are a set of keyword/value pairs.

B<content> is an arbitrary amount of data.

The Response Object

The libwww-perl response object has the class name C<HTTP::Response>. The main attributes of objects of this class are:

B<code> is a numerical value that indicates the overall outcome of the request.

B<message> is a short, human readable string that corresponds to the I<code>.

B<headers> contains additional information about the response and describe the content.

B<content> is an arbitrary amount of data.

Since we don't want to handle all possible I<code> values directly in
our programs, a libwww-perl response object has methods that can be used to query what kind of response this is. The most commonly used response classification methods are:

=over 3

=item is_success()

The request was successfully received, understood or accepted.

=item is_error()

The request failed. The server or the resource might not be available, access to the resource might be denied or other things might have failed for some reason.

=back

=head2 The User Agent

Let us assume that we have created a I<request> object. What do we actually do with it in order to receive a I<response>?

The answer is that you pass it to a I<user agent> object and this object takes care of all the things that need to be done (like low-level communication and error handling) and returns a I<response> object. The user agent represents your application on the network and provides you with an interface that can accept I<requests> and return I<responses>.

The user agent is an interface layer between your application code and the network. Through this interface you are able to access the various servers on the network.

The class name for the user agent is C<LWP::UserAgent>. Every libwww-perl application that wants to communicate should create at least one object of this class. The main method provided by this object is request(). This method takes an C<HTTP::Request> object as argument and (eventually) returns a C<HTTP::Response> object.

The user agent has many other attributes that let you configure how it will interact with the network and with your application.

=over 3

=item *

B<timeout> specifies how much time we give remote servers to respond before the library disconnects and creates an internal I<timeout> response.

=item *

B<agent> specifies the name that your application uses when it presents itself on the network.

=item *

B<from> can be set to the e-mail address of the person responsible for running the application. If this is set, then the address will be sent to the servers with every request.

=item *

B<p=parse_head> specifies whether we should initialize response headers from the E<lt>head> section of HTML documents.

=item *

B<proxy> and B<no_proxy> specify if and when to go through a proxy server. <URL:http://www.w3.org/History/1994/WWW/Proxies/>

=item *

B<credentials> provides a way to set up user names and passwords needed to access certain services.

=back

Many applications want even more control over how they interact with the network and they get this by sub-classing C<LWP::UserAgent>. The library includes a sub-class, C<LWP::RobotUA>, for robot applications.

=head2 An Example

This example shows how the user agent, a request and a response are represented in actual perl code:

# Create a user agent object
use LWP::UserAgent;
my $ua = LWP::UserAgent->new;
$ua->agent("MyApp/0.1 ");

# Create a request
my $req = HTTP::Request->new(POST => 'http://search.cpan.org/search);
$req->content_type('application/x-www-form-urlencoded');
$req->content('query=libwww-perl&mode=dist');

# Pass request to the user agent and get a response back
my $res = $ua->request($req);

# Check the outcome of the response
if ($res->is_success) {
    print $res->content;
} else {
    print $res->status_line, "\n";
}

The $ua is created once when the application starts up. New request objects should normally created for each request sent.

=head1 NETWORK SUPPORT

This section discusses the various protocol schemes and the HTTP style methods that headers may be used for each.

For all requests, a "User-Agent" header is added and initialized from the $ua->agent attribute before the request is handed to the network layer. In the same way, a "From" header is initialized from the $ua->from attribute.

For all responses, the library adds a header called "Client-Date". This header holds the time when the response was received by your application. The format and semantics of the header are the same as the server created "Date" header. You may also encounter other "Client-XXX" headers. They are all generated by the library internally and are not received from the servers.

=head2 HTTP Requests

HTTP requests are just handed off to an HTTP server and it decides what happens. Few servers implement methods beside the usual "GET", "HEAD", "POST" and "PUT", but CGI-scripts may implement any method they like.

If the server is not available then the library will generate an internal error response.

The library automatically adds a "Host" and a "Content-Length" header to the HTTP request before it is sent over the network.
For a GET request you might want to add a "If-Modified-Since" or "If-None-Match" header to make the request conditional.

For a POST request you should add the "Content-Type" header. When you try to emulate HTML E<form> handling you should usually let the value of the "Content-Type" header be "application/x-www-form-urlencoded". See L<iwpcook> for examples of this.

The libwww-perl HTTP implementation currently support the HTTP/1.1 and HTTP/1.0 protocol.

The library allows you to access proxy server through HTTP. This means that you can set up the library to forward all types of request through the HTTP protocol module. See L<LWP::UserAgent> for documentation of this.

=head2 HTTPS Requests

HTTPS requests are HTTP requests over an encrypted network connection using the SSL protocol developed by Netscape. Everything about HTTP requests above also apply to HTTPS requests. In addition the library will add the headers "Client-SSL-Cipher", "Client-SSL-Cert-Subject" and "Client-SSL-Cert-Issuer" to the response. These headers denote the encryption method used and the name of the server owner.

The request can contain the header "If-SSL-Cert-Subject" in order to make the request conditional on the content of the server certificate. If the certificate subject does not match, no request is sent to the server and an internally generated error response is returned. The value of the "If-SSL-Cert-Subject" header is interpreted as a Perl regular expression.

=head2 FTP Requests

The library currently supports GET, HEAD and PUT requests. GET retrieves a file or a directory listing from an FTP server. PUT stores a file on a ftp server.

You can specify a ftp account for servers that want this in addition to user name and password. This is specified by including an "Account" header in the request.

User name/password can be specified using basic authorization or be encoded in the URL. Failed logins return an UNAUTHORIZED response with "WWW-Authenticate: Basic" and can be treated like basic authorization.
for HTTP.

The library supports ftp ASCII transfer mode by specifying the "type=a" parameter in the URL. It also supports transfer of ranges for FTP transfers using the "Range" header.

Directory listings are by default returned unprocessed (as returned from the ftp server) with the content media type reported to be "text/ftp-dir-listing". The C<File::Listing> module provides methods for parsing of these directory listing.

The ftp module is also able to convert directory listings to HTML and this can be requested via the standard HTTP content negotiation mechanisms (add an "Accept: text/html" header in the request if you want this).

For normal file retrievals, the "Content-Type" is guessed based on the file name suffix. See L<MediaTypes>.

The "If-Modified-Since" request header works for servers that implement the MDTM command. It will probably not work for directory listings though.

Example:

```
$req = HTTP::Request->new(GET => 'ftp://me:passwd@ftp.some.where.com/');
$req->header(Accept => 'text/html, */*;q=0.1');
```

=head2 News Requests

Access to the USENET News system is implemented through the NNTP protocol. The name of the news server is obtained from the NNTP_SERVER environment variable and defaults to "news". It is not possible to specify the hostname of the NNTP server in news: URLs.

The library supports GET and HEAD to retrieve news articles through the NNTP protocol. You can also post articles to newsgroups by using (surprise!) the POST method.

GET on newsgroups is not implemented yet.

Examples:

```
$req = HTTP::Request->new(GET => 'news:abc1234@a.sn.no');

$req = HTTP::Request->new(POST => 'news:comp.lang.perl.test');
$req->header(Subject => 'This is a test', From => 'me@some.where.org');
$req->content(<<EOT);
```

This is the content of the message that we are sending to the world.
EOT

=head2 Gopher Request

The library supports the GET and HEAD methods for gopher requests. All request header values are ignored. HEAD cheats and returns a response without even talking to server.

Gopher menus are always converted to HTML.

The response "Content-Type" is generated from the document type encoded (as the first letter) in the request URL path itself.

Example:

$req = HTTP::Request->new(GET => 'gopher://gopher.sn.no/');

=head2 File Request

The library supports GET and HEAD methods for file requests. The "If-Modified-Since" header is supported. All other headers are ignored. The I<host> component of the file URL must be empty or set to "localhost". Any other I<host> value will be treated as an error.

Directories are always converted to an HTML document. For normal files, the "Content-Type" and "Content-Encoding" in the response are guessed based on the file suffix.

Example:

$req = HTTP::Request->new(GET => 'file:/etc/passwd');

=head2 Mailto Request

You can send (aka "POST") mail messages using the library. All headers specified for the request are passed on to the mail system. The "To" header is initialized from the mail address in the URL.

Example:

$req = HTTP::Request->new(POST => 'mailto:libwww@perl.org');
$req->header(Subject => "subscribe");
$req->content("Please subscribe me to the libwww-perl mailing list!
");

=head2 CPAN Requests

URLs with scheme C<cpan:> are redirected to the a suitable CPAN mirror. If you have your own local mirror of CPAN you might tell LWP to use it for C<cpan:> URLs by an assignment like this:

$LWP::Protocol::cpan::CPAN = "file:/local/CPAN/";

Suitable CPAN mirrors are also picked up from the configuration for the CPAN.pm, so if you have used that module a suitable mirror should be picked automatically. If neither of these apply, then a redirect to the generic CPAN http location is issued.

Example request to download the newest perl:

$req = HTTP::Request->new(GET => "cpan:src/latest.tar.gz");

=head1 OVERVIEW OF CLASSES AND PACKAGES

This table should give you a quick overview of the classes provided by the library. Indentation shows class inheritance.

LWP::MemberMixin   -- Access to member variables of Perl5 classes
LWP::UserAgent   -- WWW user agent class
LWP::RobotUA   -- When developing a robot applications
LWP::Protocol          -- Interface to various protocol schemes
    LWP::Protocol::http -- http:// access
    LWP::Protocol::file -- file:// access
    LWP::Protocol::ftp -- ftp:// access
...

LWP::Authen::Basic -- Handle 401 and 407 responses
LWP::Authen::Digest

HTTP::Headers      -- MIME/RFC822 style header (used by HTTP::Message)
HTTP::Message      -- HTTP style message
    HTTP::Request -- HTTP request
    HTTP::Response -- HTTP response
HTTP::Daemon       -- A HTTP server class

WWW::RobotRules    -- Parse robots.txt files
    WWW::RobotRules::AnyDBM_File -- Persistent RobotRules

Net::HTTP          -- Low level HTTP client
The following modules provide various functions and definitions.

LWP                -- This file. Library version number and documentation.
LWP::MediaTypes   -- MIME types configuration (text/html etc.)
LWP::Simple       -- Simplified procedural interface for common functions
HTTP::Status      -- HTTP status code (200 OK etc)
HTTP::Date        -- Date parsing module for HTTP date formats
HTTP::Negotiate   -- HTTP content negotiation calculation
File::Listing     -- Parse directory listings
HTML::Form         -- Processing for <form>s in HTML documents

=head1 MORE DOCUMENTATION

All modules contain detailed information on the interfaces they provide. The L<lwpcook> manpage is the libwww-perl cookbook that contain examples of typical usage of the library. You might want to take a look at how the scripts L<lwp-request>, L<lwp-download>, L<lwp-dump> and L<lwp-mirror> are implemented.

=head1 ENVIRONMENT

The following environment variables are used by LWP:

=over
=item HOME

The C<LWP::MediaTypes> functions will look for the F<.media.types> and F<.mime.types> files relative to you home directory.

=item http_proxy
=item ftp_proxy
=item xxx_proxy
=item no_proxy

These environment variables can be set to enable communication through a proxy server. See the description of the C<env_proxy> method in L<LWP::UserAgent>.

=item PERL_LWP_ENV_PROXY

If set to a TRUE value, then the C<LWP::UserAgent> will by default call C<env_proxy> during initialization. This makes LWP honor the proxy variables described above.
=item PERL_LWP_SSL_VERIFY_HOSTNAME

The default C<verify_hostname> setting for C<LWP::UserAgent>. If not set the default will be 1. Set it as 0 to disable hostname verification (the default prior to libwww-perl 5.840).

=item PERL_LWP_SSL_CA_FILE

=item PERL_LWP_SSL_CA_PATH

The file and/or directory where the trusted Certificate Authority certificates is located. See L<LWP::UserAgent> for details.

=item PERL_HTTP_URI_CLASS

Used to decide what URI objects to instantiate. The default is C<URI>. You might want to set it to C<URI::URL> for compatibility with old times.

=back

=head1 AUTHORS

LWP owes a lot in motivation, design, and code, to the libwww-perl library for Perl4 by Roy Fielding, which included work from Alberto Accomazzi, James Casey, Brooks Cutter, Martijn Koster, Oscar Nierstrasz, Mel Melchner, Gertjan van Oosten, Jared Rhine, Jack Shirazzi, Gene Spafford, Marc VanHeyningen, Steven E. Brenner, Marion Hakanson, Waldemar Kebsch, Tony Sanders, and Larry Wall; see the libwww-perl-0.40 library for details.

=head1 COPYRIGHT

Copyright 1995-2009, Gisle Aas

Copyright 1995, Martijn Koster

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 AVAILABILITY

The latest version of this library is likely to be available from CPAN as well as:

http://github.com/libwww-perl/libwww-perl

The best place to discuss this code is on the <libwww@perl.org> mailing list.

=cut

LWP (short for "Library for WWW in Perl") is a very popular group of Perl modules for accessing data on the Web. Like most Perl module-distributions, each of LWP's component modules comes with documentation that is a complete reference to its interface. However, there are so many modules in LWP that it's hard to know where to start looking for information on how to do even the simplest most common
Getting documents with LWP::Simple

If you just want to get what's at a particular URL, the simplest way to do it is LWP::Simple's functions.

In a Perl program, you can call its C<get($url)> function. It will try getting that URL's content. If it works, then it'll return the content; but if there's some error, it'll return undef.

```perl
my $url = 'http://www.npr.org/programs/fa/?todayDate=current';
    # Just an example: the URL for the most recent /Fresh Air/ show
use LWP::Simple;
my $content = get $url;
die "Couldn't get $url" unless defined $content;

# Then go do things with $content, like this:

if($content =~ m/jazz/i) {
    print "They're talking about jazz today on Fresh Air!\n";
} else {
    print "Fresh Air is apparently jazzless today.\n";
}
```

The handiest variant on C<get> is C<getprint>, which is useful in Perl one-liners. If it can get the page whose URL you provide, it sends it to STDOUT; otherwise it complains to STDERR.

```
% perl -MLWP::Simple -e "getprint 'http://www.cpan.org/RECENT'"
```

That is the URL of a plain text file that lists new files in CPAN in the past two weeks. You can easily make it part of a tidy little shell command, like this one that mails you the list of new C<Acme:> modules:

```
% perl -MLWP::Simple -e "getprint 'http://www.cpan.org/RECENT' \n    | grep '/by-module/Acme' | mail -s "New Acme modules! Joy!" $USER
```

There are other useful functions in LWP::Simple, including one function
for running a HEAD request on a URL (useful for checking links, or
getting the last-revised time of a URL), and two functions for
saving/mirroring a URL to a local file. See L<the LWP::Simple
documentation|LWP::Simple> for the full details, or chapter 2 of I<Perl
& LWP> for more examples.

=head2 The Basics of the LWP Class Model

LWP::Simple's functions are handy for simple cases, but its functions
don't support cookies or authorization, don't support setting header
lines in the HTTP request, generally don't support reading header lines
in the HTTP response (notably the full HTTP error message, in case of an
error). To get at all those features, you'll have to use the full LWP
class model.

While LWP consists of dozens of classes, the main two that you have to
understand are L<LWP::UserAgent> and L<HTTP::Response>. LWP::UserAgent
is a class for "virtual browsers" which you use for performing requests,
and L<HTTP::Response> is a class for the responses (or error messages)
that you get back from those requests.

The basic idiom is C<< $response = $browser->get($url) >>, or more fully
illustrated:

# Early in your program:

use LWP 5.64; # Loads all important LWP classes, and makes
    # sure your version is reasonably recent.

my $browser = LWP::UserAgent->new;

...

# Then later, whenever you need to make a get request:
my $url = 'http://www.npr.org/programs/fa/?todayDate=current';

my $response = $browser->get( $url );
die "Can't get $url -- ", $response->status_line
    unless $response->is_success;

die "Hey, I was expecting HTML, not ", $response->content_type
unless $response->content_type eq 'text/html';
    # or whatever content-type you're equipped to deal with

    # Otherwise, process the content somehow:

    if($response->decoded_content =~ m/jazz/i) {
        print "They're talking about jazz today on Fresh Air!\n";
    }
    else {
        print "Fresh Air is apparently jazzless today.\n";
    }

There are two objects involved: C<$browser>, which holds an object of
class LWP::UserAgent, and then the C<$response> object, which is of
class HTTP::Response. You really need only one browser object per
program; but every time you make a request, you get back a new
HTTP::Response object, which will have some interesting attributes:

=over

=item *

A status code indicating
success or failure
(which you can test with C<< $response->is_success >>).

=item *

An HTTP status
line that is hopefully informative if there's failure (which you can
see with C<< $response->status_line >>,
returning something like "404 Not Found").

=item *

A MIME content-type like "text/html", "image/gif",
"application/xml", etc., which you can see with
C<< $response->content_type >>

=item *

The actual content of the response, in C<< $response->decoded_content >>.
If the response is HTML, that's where the HTML source will be; if
it's a GIF, then C<< $response->decoded_content >> will be the binary
GIF data.
And dozens of other convenient and more specific methods that are documented in the docs for \texttt{L\<HTTP::Response\>}, and its superclasses \texttt{L\<HTTP::Message\>} and \texttt{L\<HTTP::Headers\>}.

=head2 Adding Other HTTP Request Headers

The most commonly used syntax for requests is \texttt{C\<\$response = $browser->get($url) \>}, but in truth, you can add extra HTTP header lines to the request by adding a list of key-value pairs after the URL, like so:

\texttt{$response = $browser->get( $url, $key1, $value1, $key2, $value2, ... );}

For example, here's how to send some more Netscape-like headers, in case you're dealing with a site that would otherwise reject your request:

my @ns_headers = (  
    'User-Agent' => 'Mozilla/4.76 [en] (Win98; U)',  
    'Accept' => 'image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*',  
    'Accept-Charset' => 'iso-8859-1,*,.utf-8',  
    'Accept-Language' => 'en-US',  
);

...

\texttt{$response = $browser->get($url, @ns_headers);}

If you weren't reusing that array, you could just go ahead and do this:

\texttt{$response = $browser->get($url,  
    'User-Agent' => 'Mozilla/4.76 [en] (Win98; U)',  
    'Accept' => 'image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*',  
    'Accept-Charset' => 'iso-8859-1,*,.utf-8',  
    'Accept-Language' => 'en-US',  
);

If you were only ever changing the 'User-Agent' line, you could just change the \texttt{C\<$browser\> object's default line from "libwww-perl/5.65\" (or the like)
to whatever you like, using the LWP::UserAgent C<agent> method:

$browser->agent('Mozilla/4.76 [en] (Win98; U)');

=head2 Enabling Cookies

A default LWP::UserAgent object acts like a browser with its cookies support turned off. There are various ways of turning it on, by setting its C<cookie_jar> attribute. A "cookie jar" is an object representing a little database of all the HTTP cookies that a browser can know about. It can correspond to a file on disk (the way Netscape uses its F<cookies.txt> file), or it can be just an in-memory object that starts out empty, and whose collection of cookies will disappear once the program is finished running.

To give a browser an in-memory empty cookie jar, you set its C<cookie_jar> attribute like so:

$browser->cookie_jar({});

To give it a copy that will be read from a file on disk, and will be saved to it when the program is finished running, set the C<cookie_jar> attribute like this:

use HTTP::Cookies;
$browser->cookie_jar( HTTP::Cookies->new( 
  'file' => '/some/where/cookies.lwp',
  # where to read/write cookies
  'autosave' => 1,
  # save it to disk when done
));

That file will be an LWP-specific format. If you want to be access the cookies in your Netscape cookies file, you can use the HTTP::Cookies::Netscape class:

use HTTP::Cookies;
# yes, loads HTTP::Cookies::Netscape too

$browser->cookie_jar( HTTP::Cookies::Netscape->new( 
  'file' => 'c:/Program Files/Netscape/Users/DIR-NAME-HERE/cookies.txt',
  # where to read/write cookies
  'autosave' => 1,
  # save it to disk when done
)):
You could add an `autosave => 1` line as further above, but at time of writing, it's uncertain whether Netscape might discard some of the cookies you could be writing back to disk.

=head2 Posting Form Data

Many HTML forms send data to their server using an HTTP POST request, which you can send with this syntax:

```perl
$response = $browser->post( $url, [$formkey1 => value1, formkey2 => value2, ... ],$headerkey1 => value1, headerkey2 => value2, );
```

Or if you need to send HTTP headers:

```perl
$response = $browser->post( $url, [$formkey1 => value1, formkey2 => value2, ... ],$headerkey1 => value1, headerkey2 => value2, );
```

For example, the following program makes a search request to AltaVista (by sending some form data via an HTTP POST request), and extracts from the HTML the report of the number of matches:

```perl
use strict;
use warnings;
use LWP 5.64;
my $browser = LWP::UserAgent->new;
```
my $word = 'tarragon';

my $url = 'http://search.yahoo.com/yhs/search';
my $response = $browser->post( $url,
    [ 'q' => $word, # the Altavista query string
        'fr' => 'altavista', 'pg' => 'q', 'avkw' => 'tgz', 'kl' => 'XX',
    ]
);

die "$url error: ", $response->status_line
unless $response->is_success;

die "Weird content type at $url -- ", $response->content_type
unless $response->content_is_html;

if( $response->decoded_content =~ m{[0-9,\s]+ results for} ) {
    # The substring will be like "996,000\</strong> results for"
    print "$word: $1\n";
} else {
    print "Couldn't find the match-string in the response\n";
}

=head2 Sending GET Form Data

Some HTML forms convey their form data not by sending the data in an HTTP POST request, but by making a normal GET request with the data stuck on the end of the URL. For example, if you went to C<www.imdb.com> and ran a search on "Blade Runner", the URL you'd see in your browser window would be:

http://www.imdb.com/find?q=Blade+Runner

To run the same search with LWP, you'd use this idiom, which involves the URI class:

use URI;
my $url = URI->new( 'http://www.imdb.com/find' );
    # makes an object representing the URL
$url->query_form( # And here the form data pairs:
    'q' => 'Blade Runner',
    's' => 'all',
);
my $response = $browser->get($url);

See chapter 5 of L<Perl & LWP> for a longer discussion of HTML forms and of form data, and chapters 6 through 9 for a longer discussion of extracting data from HTML.

=head2 Absolutizing URLs

The URI class that we just mentioned above provides all sorts of methods for accessing and modifying parts of URLs (such as asking sort of URL it is with C<< $url->scheme >>, and asking what host it refers to with C<< $url->host >>, and so on, as described in L<the docs for the URI class|URI>). However, the methods of most immediate interest are the C<query_form> method seen above, and now the C<new_abs> method for taking a probably-relative URL string (like ".//foo.html") and getting back an absolute URL (like "http://www.perl.com/stuff/foo.html"), as shown here:

use URI;
$abs = URI->new_abs($maybe_relative, $base);

For example, consider this program that matches URLs in the HTML list of new modules in CPAN:

use strict;
use warnings;
use LWP;
my $browser = LWP::UserAgent->new;

my $url = 'http://www.cpan.org/RECENT.html';
my $response = $browser->get($url);
die "Can't get $url -- ", $response->status_line unless $response->is_success;

my $html = $response->decoded_content;
while ( $html =~ m/<A HREF="(.*?)"/g ) {
    print "$1\n";
}

When run, it emits output that starts out something like this:

MIRRORING.FROM
RECENT
RECENT.html
However, if you actually want to have those be absolute URLs, you can use the URI module's `new_abs` method, by changing the `while` loop to this:

```perl
while( $html =~ m/<A HREF="(.*?)"/g ) {
    print URI->new_abs( $1, $response->base ) ,"\n";
}
```

(The `<< $response->base ` method from `L<HTTP::Message|HTTP::Message>` is for returning what URL should be used for resolving relative URLs -- it's usually just the same as the URL that you requested.)

That program then emits nicely absolute URLs:

http://www.cpan.org/MIRRORING.FROM
http://www.cpan.org/RECENT
http://www.cpan.org/RECENT.html
http://www.cpan.org/authors/00whois.html
http://www.cpan.org/authors/01mailrc.txt.gz
http://www.cpan.org/authors/id/A/AA/AASSAD/CHECKSUMS
...

See chapter 4 of `I<Perl & LWP>` for a longer discussion of URI objects.

Of course, using a regexp to match hrefs is a bit simplistic, and for more robust programs, you'll probably want to use an HTML-parsing module like `L<HTML::LinkExtor>` or `L<HTML::TokeParser>` or even maybe `L<HTML::TreeBuilder>`.

=for comment

##########################################################################
=head2 Other Browser Attributes

LWP::UserAgent objects have many attributes for controlling how they work. Here are a few notable ones:

=over


This sets this browser object to give up on requests that don't answer within 15 seconds.

This sets this browser object to not speak any protocols other than HTTP and gopher. If it tries accessing any other kind of URL (like an "ftp:" or "mailto:" or "news:" URL), then it won't actually try connecting, but instead will immediately return an error code 500, with a message like "Access to 'ftp' URIs has been disabled".

This tells the browser object to try using the HTTP/1.1 "Keep-Alive" feature, which speeds up requests by reusing the same socket connection for multiple requests to the same server.

This changes how the browser object will identify itself in the default "User-Agent" line of its HTTP requests. By default, it'll send "libwww-perl/I<versionnumber>", like "libwww-perl/5.65". You can change that to something more descriptive like this:

```
$browser->agent( 'SomeName/3.14 (contact@robotplexus.int)' );
```

Or if need be, you can go in disguise, like this:

```
$browser->agent( 'Mozilla/4.0 (compatible; MSIE 5.12; Mac_PowerPC)' );
```

C<< push @ { $ua->requests_redirectable }, 'POST'; >>
This tells this browser to obey redirection responses to POST requests (like most modern interactive browsers), even though the HTTP RFC says that should not normally be done.

=head2 Writing Polite Robots

If you want to make sure that your LWP-based program respects F<robots.txt> files and doesn't make too many requests too fast, you can use the LWP::RobotUA class instead of the LWP::UserAgent class.

LWP::RobotUA class is just like LWP::UserAgent, and you can use it like so:

use LWP::RobotUA;
my $browser = LWP::RobotUA->new('YourSuperBot/1.34', 'you@yoursite.com');  # Your bot's name and your email address
my $response = $browser->get($url);

But HTTP::RobotUA adds these features:

die "$url -- ", $response->status_line, "\nAborted"
unless $response->is_success;
then the program would die with an error message like this:

```
http://whatever.site.int/pith/x.html -- 403 Forbidden by robots.txt
Aborted at whateverprogram.pl line 1234
```

If this `$browser` object sees that the last time it talked to
`$url`’s server was too recently, then it will pause (via `$sleep`) to
avoid making too many requests too often. How long it will pause for, is
by default one minute -- but you can control it with the `<<
$browser->delay( I<minutes> ) >>` attribute.

For example, this code:

```
$browser->delay( 7/60 );
```

...means that this browser will pause when it needs to avoid talking to
any given server more than once every 7 seconds.

=back

For more options and information, see L<the full documentation for
LWP::RobotUA|LWP::RobotUA>.

=head2 Using Proxies

In some cases, you will want to (or will have to) use proxies for
accessing certain sites and/or using certain protocols. This is most
commonly the case when your LWP program is running (or could be running)
on a machine that is behind a firewall.

To make a browser object use proxies that are defined in the usual
environment variables (C<HTTP_PROXY>, etc.), just call the C<env_proxy>
on a user-agent object before you go making any requests on it.
Specifically:

```
use LWP::UserAgent;
my $browser = LWP::UserAgent->new;

# And before you go making any requests:
```

=head2 Using Proxies

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environment variables (C<HTTP_PROXY>, etc.), just call the C<env_proxy>
on a user-agent object before you go making any requests on it.
Specifically:

```
use LWP::UserAgent;
my $browser = LWP::UserAgent->new;

# And before you go making any requests:
$browser->env_proxy;

For more information on proxy parameters, see L<the LWP::UserAgent documentation|LWP::UserAgent>, specifically the C<proxy>, C<env_proxy>, and C<no_proxy> methods.

=head2 HTTP Authentication

Many web sites restrict access to documents by using "HTTP Authentication". This isn't just any form of "enter your password" restriction, but is a specific mechanism where the HTTP server sends the browser an HTTP code that says "That document is part of a protected 'realm', and you can access it only if you re-request it and add some special authorization headers to your request".

For example, the Unicode.org admins stop email-harvesting bots from harvesting the contents of their mailing list archives, by protecting them with HTTP Authentication, and then publicly stating the username and password (at C<http://www.unicode.org/mail-arch/>) -- namely username "unicode-ml" and password "unicode".

For example, consider this URL, which is part of the protected area of the web site:

http://www.unicode.org/mail-arch/unicode-ml/y2002-m08/0067.html

If you access that with a browser, you'll get a prompt like
"Enter username and password for 'Unicode-MailList-Archives' at server 'www.unicode.org'".

In LWP, if you just request that URL, like this:

use LWP;
my $browser = LWP::UserAgent->new;

my $url = 'http://www.unicode.org/mail-arch/unicode-ml/y2002-m08/0067.html';
my $response = $browser->get($url);

die "Error: ", $response->header('WWW-Authenticate') || 'Error accessing',
# ('WWW-Authenticate' is the realm-name)
"in ", $response->status_line, "in $url Aborting"
unless $response->is_success;

Then you'll get this error:

Error: Basic realm="Unicode-MailList-Archives"
401 Authorization Required
at http://www.unicode.org/mail-arch/unicode-ml/y2002-m08/0067.html
Aborting at auth1.pl line 9.  [or wherever]

...because the C<$browser> doesn't know any the username and password
for that realm ("Unicode-MailList-Archives") at that host
("www.unicode.org").  The simplest way to let the browser know about this
is to use the C<credentials> method to let it know about a username and
password that it can try using for that realm at that host.  The syntax is:

$browser->credentials(
    'servername:portnumber',
    'realm-name',
    'username' => 'password'
);

In most cases, the port number is 80, the default TCP/IP port for HTTP; and
you usually call the C<credentials> method before you make any requests.
For example:

$browser->credentials(
    'reports.mybazouki.com:80',
    'web_server_usage_reports',
    'plinky' => 'banjo123'
);

So if we add the following to the program above, right after the C<<
$browser = LWP::UserAgent->new; >> line...

$browser->credentials(  # add this to our $browser's "key ring"
    'www.unicode.org:80',
    'Unicode-MailList-Archives',
    'unicode-ml' => 'unicode'
);

...then when we run it, the request succeeds, instead of causing the
C<die> to be called.

=for comment
##########################################################################
When you access an HTTPS URL, it'll work for you just like an HTTP URL would -- if your LWP installation has HTTPS support (via an appropriate Secure Sockets Layer library). For example:

```perl
use LWP;
my $url = 'https://www.paypal.com/';  # Yes, HTTPS!
my $browser = LWP::UserAgent->new;
my $response = $browser->get($url);
die "Error at $url\n", $response->status_line, "\n Aborting"
unless $response->is_success;
print "Whee, it worked! I got that \n",
$response->content_type, " document!\n";
```

If your LWP installation doesn't have HTTPS support set up, then the response will be unsuccessful, and you'll get this error message:

```
Error at https://www.paypal.com/
501 Protocol scheme 'https' is not supported
Aborting at paypal.pl line 7. [or whatever program and line]
```

If your LWP installation <does> have HTTPS support installed, then the response should be successful, and you should be able to consult `$response` just like with any normal HTTP response.

For information about installing HTTPS support for your LWP installation, see the helpful `README.SSL` file that comes in the libwww-perl distribution.

When you're requesting a large (or at least potentially large) document, a problem with the normal way of using the request methods (like $response = $browser-&gt;get($url) >>) is that the response object in memory will have to hold the whole document -- in memory. If the response is a thirty megabyte file, this is likely to be quite an imposition on this process's memory usage.

A notable alternative is to have LWP save the content to a file on disk, instead of saving it up in memory. This is the syntax to use:
$response = $ua->get($url,
    :
        :content_file' => $filespec,
    );

For example,

$response = $ua->get('http://search.cpan.org/',
    :
        :content_file' => '/tmp/sco.html'
    );

When you use this C<:content_file> option, the C<$response> will have all the normal header lines, but C<< $response->content >> will be empty.

Note that this ":content_file" option isn't supported under older versions of LWP, so you should consider adding C<use LWP 5.66;> to check the LWP version, if you think your program might run on systems with older versions.

If you need to be compatible with older LWP versions, then use this syntax, which does the same thing:

use HTTP::Request::Common;
$response = $ua->request( GET($url), $filespec );

=head1 SEE ALSO

Remember, this article is just the most rudimentary introduction to LWP -- to learn more about LWP and LWP-related tasks, you really must read from the following:

=item *
L<LWP::Simple> -- simple functions for getting/heading/mirroring URLs

=item *
L<LWP> -- overview of the libwww-perl modules

=item *

L<LWP::UserAgent> -- the class for objects that represent "virtual browsers"

=item *

L<HTTP::Response> -- the class for objects that represent the response to a LWP response, as in C<< $response = $browser->get(...) >>

=item *

L<HTTP::Message> and L<HTTP::Headers> -- classes that provide more methods to HTTP::Response.

=item *

L<URI> -- class for objects that represent absolute or relative URLs

=item *

L<URI::Escape> -- functions for URL-escaping and URL-unescaping strings (like turning "this & that" to and from "this%20%26%20that").

=item *

L<HTML::Entities> -- functions for HTML-escaping and HTML-unescaping strings (like turning "C. & E. Brontë" to and from "C. &amp; E. Brontë")

=item *

L.HTML::TokeParser and L.HTML::TreeBuilder -- classes for parsing HTML

=item *

L<HTML::LinkExtor> -- class for finding links in HTML documents

=item *


=back

=head1 COPYRIGHT

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=head1 AUTHOR

Sean M. Burke <sburke@cpan.org>

=cut

# End of Pod

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 NAME

LWP::UserAgent - Web user agent class

=head1 SYNOPSIS

require LWP::UserAgent;

my $ua = LWP::UserAgent->new;
$ua->timeout(10);
$ua->env_proxy;

my $response = $ua->get('http://search.cpan.org/');

if ($response->is_success) {
    print $response->decoded_content;  # or whatever
} else {
    die $response->status_line;
}

=head1 DESCRIPTION
The `LWP::UserAgent` is a class implementing a web user agent. `LWP::UserAgent` objects can be used to dispatch web requests.

In normal use the application creates an `LWP::UserAgent` object, and then configures it with values for timeouts, proxies, name, etc. It then creates an instance of `HTTP::Request` for the request that needs to be performed. This request is then passed to one of the request method the UserAgent, which dispatches it using the relevant protocol, and returns a `HTTP::Response` object. There are convenience methods for sending the most common request types: `get()`, `head()`, `post()`, `put()` and `delete()`. When using these methods then the creation of the request object is hidden as shown in the synopsis above.

The basic approach of the library is to use HTTP style communication for all protocol schemes. This means that you will construct `HTTP::Request` objects and receive `HTTP::Response` objects even for non-HTTP resources like `gopher` and `ftp`. In order to achieve even more similarity to HTTP style communications, gopher menus and file directories are converted to HTML documents.

=head1 CONSTRUCTOR METHODS

The following constructor methods are available:

=over 4

=item $ua = LWP::UserAgent->new( %options )

This method constructs a new `LWP::UserAgent` object and returns it. Key/value pair arguments may be provided to set up the initial state.

The following options correspond to attribute methods described below:

<table>
<thead>
<tr>
<th>KEY</th>
<th>DEFAULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>agent</td>
<td>&quot;libwww-perl/#.###&quot;</td>
</tr>
<tr>
<td>from</td>
<td>undef</td>
</tr>
<tr>
<td>conn_cache</td>
<td>undef</td>
</tr>
<tr>
<td>cookie_jar</td>
<td>undef</td>
</tr>
<tr>
<td>default_headers</td>
<td>HTTP::Headers-&gt;new</td>
</tr>
<tr>
<td>local_address</td>
<td>undef</td>
</tr>
<tr>
<td>ssl_opts</td>
<td>{ verify_hostname =&gt; 1 }</td>
</tr>
<tr>
<td>max_size</td>
<td>undef</td>
</tr>
<tr>
<td>max_redirect</td>
<td>7</td>
</tr>
<tr>
<td>parse_head</td>
<td>1</td>
</tr>
<tr>
<td>protocols_allowed</td>
<td>undef</td>
</tr>
<tr>
<td>protocols_forbidden</td>
<td>undef</td>
</tr>
<tr>
<td>requests_redirectable</td>
<td>['GET', 'HEAD']</td>
</tr>
<tr>
<td>timeout</td>
<td>180</td>
</tr>
</tbody>
</table>
The following additional options are also accepted: If the C<env_proxy> option is passed in with a TRUE value, then proxy settings are read from environment variables (see env_proxy() method below). If C<env_proxy> isn't provided the C<PERL_LWP_ENV_PROXY> environment variable controls if env_proxy() is called during initialization. If the C<keep_alive> option is passed in, then a C<LWP::ConnCache> is set up (see conn_cache() method below). The C<keep_alive> value is passed on as the C<total_capacity> for the connection cache.

=item $ua->clone

Returns a copy of the LWP::UserAgent object.

=back

=head1 ATTRIBUTES

The settings of the configuration attributes modify the behaviour of the C<LWP::UserAgent> when it dispatches requests. Most of these can also be initialized by options passed to the constructor method.

The following attribute methods are provided. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

=over

=item $ua->agent

=item $ua->agent( $product_id )

Get/set the product token that is used to identify the user agent on the network. The agent value is sent as the "User-Agent" header in the requests. The default is the string returned by the _agent() method (see below).

If the $product_id ends with space then the _agent() string is appended to it.

The user agent string should be one or more simple product identifiers with an optional version number separated by the "/" character. Examples are:

$ua->agent('Checkbot/0.4 ' . $ua->_agent);
$ua->agent('Checkbot/0.4 ');
$ua->agent('Checkbot/0.4');  # same as above
$ua->agent('Mozilla/5.0');
$ua->agent('');             # don't identify
=item $ua->_agent

Returns the default agent identifier. This is a string of the form "libwww-perl/#.###", where "#.###" is substituted with the version number of this library.

=item $ua->from

=item $ua->from( $email_address )

Get/set the e-mail address for the human user who controls the requesting user agent. The address should be machine-usable, as defined in RFC 822. The C<from> value is send as the "From" header in the requests. Example:

$ua->from('gaas@cpan.org');

The default is to not send a "From" header. See the default_headers() method for the more general interface that allow any header to be defaulted.

=item $ua->cookie_jar

=item $ua->cookie_jar( $cookie_jar_obj )

Get/set the cookie jar object to use. The only requirement is that the cookie jar object must implement the extract_cookies($request) and add_cookie_header($response) methods. These methods will then be invoked by the user agent as requests are sent and responses are received. Normally this will be a C<HTTP::Cookies> object or some subclass.

The default is to have no cookie_jar, i.e. never automatically add "Cookie" headers to the requests.

Shortcut: If a reference to a plain hash is passed in as the $cookie_jar_object, then it is replaced with an instance of C<HTTP::Cookies> that is initialized based on the hash. This form also automatically loads the C<HTTP::Cookies> module. It means that:

$ua->cookie_jar({ file => "$ENV{HOME}/.cookies.txt" });

is really just a shortcut for:

require HTTP::Cookies;
$ua->cookie_jar(HTTP::Cookies->new(file => "$ENV{HOME}/.cookies.txt"));

=item $ua->default_headers
Get/set the headers object that will provide default header values for any requests sent. By default this will be an empty C<HTTP::Headers> object.

Get/set the C<LWP::ConnCache> object to use. See L<LWP::ConnCache> for details.

Get/set the user name and password to be used for a realm. The $netloc is a string of the form "<host>:<port>". The username and password will only be passed to this server. Example:

$ua->credentials("www.example.com:80", "Some Realm", "foo", "secret");

Get/set the local interface to bind to for network connections. The interface can be specified as a hostname or an IP address. This value is passed as the C<LocalAddr> argument to L<IO::Socket::INET>.

Get/set the size limit for response content. The default is C<undef>, which means that there is no limit. If the returned response content
is only partial, because the size limit was exceeded, then a
"Client-Aborted" header will be added to the response. The content
might end up longer than C<max_size> as we abort once appending a
chunk of data makes the length exceed the limit. The "Content-Length"
header, if present, will indicate the length of the full content and
will normally not be the same as C<< length($res->content) >>.

=item $ua->max_redirect

=item $ua->max_redirect( $n )

This reads or sets the object's limit of how many times it will obey
redirection responses in a given request cycle.

By default, the value is 7. This means that if you call request()
method and the response is a redirect elsewhere which is in turn a
redirect, and so on seven times, then LWP gives up after that seventh
request.

=item $ua->parse_head

=item $ua->parse_head( $boolean )

Get/set a value indicating whether we should initialize response
headers from the E<lt>head> section of HTML documents. The default is
TRUE. Do not turn this off, unless you know what you are doing.

=item $ua->protocols_allowed

=item $ua->protocols_allowed( \@protocols )

This reads (or sets) this user agent's list of protocols that the
request methods will exclusively allow. The protocol names are case
insensitive.

For example: C<$ua-E<gt>protocols_allowed( [ 'http', 'https'] );>
means that this user agent will I<allow only> those protocols,
and attempts to use this user agent to access URLs with any other
schemes (like "ftp://...") will result in a 500 error.

To delete the list, call: C<$ua-E<gt>protocols_allowed(undef)>

By default, an object has neither a C<protocols_allowed> list, nor a
C<protocols_forbidden> list.

Note that having a C<protocols_allowed> list causes any
C<protocols_forbidden> list to be ignored.
This reads (or sets) this user agent's list of protocols that the request method will not allow. The protocol names are case insensitive.

For example: `C<$ua-E<gt>protocols_forbidden( [ 'file', 'mailto' ] );>` means that this user agent will not allow those protocols, and attempts to use this user agent to access URLs with those schemes will result in a 500 error.

To delete the list, call: `C<$ua-E<gt>protocols_forbidden(undef)>`

This reads or sets the object's list of request names that `C<$ua-E<gt>redirect_ok(...)>` will allow redirection for. By default, this is `C<['GET', 'HEAD']>, as per RFC 2616. To change to include 'POST', consider:

`push @{ $ua->requests_redirectable }, 'POST';`

Get/set a value indicating whether a progress bar should be displayed on the terminal as requests are processed. The default is FALSE.

Get/set the timeout value in seconds. The default timeout() value is 180 seconds, i.e. 3 minutes.

The requests is aborted if no activity on the connection to the server is observed for timeout seconds. This means that the time it takes for the complete transaction and the request() method to actually return might be longer.
Get/set the options for SSL connections. Without argument return the list of options keys currently set. With a single argument return the current value for the given option. With 2 arguments set the option value and return the old. Setting an option to the value `undef` removes this option.

The options that LWP relates to are:

=item $ua->ssl_opts($key => $value)

=item C<verify_hostname> => $bool

When TRUE LWP will for secure protocol schemes ensure it connects to servers that have a valid certificate matching the expected hostname. If FALSE no checks are made and you can't be sure that you communicate with the expected peer. The no checks behaviour was the default for libwww-perl-5.837 and earlier releases.

This option is initialized from the L<PERL_LWP_SSL_VERIFY_HOSTNAME> environment variable. If this environment variable isn't set; then C<verify_hostname> defaults to 1.

=item C<SSL_ca_file> => $path

The path to a file containing Certificate Authority certificates. A default setting for this option is provided by checking the environment variables C<PERL_LWP_SSL_CA_FILE> and C<HTTPS_CA_FILE> in order.

=item C<SSL_ca_path> => $path

The path to a directory containing files containing Certificate Authority certificates. A default setting for this option is provided by checking the environment variables C<PERL_LWP_SSL_CA_PATH> and C<HTTPS_CA_DIR> in order.

Other options can be set and are processed directly by the SSL Socket implementation in use. See L<IO::Socket::SSL> or L<Net::SSL> for details.

The libwww-perl core no longer bundles protocol plugins for SSL. You will need to install L<LWP::Protocol::https> separately to enable support for processing https-URLs.

=head2 Proxy attributes
The following methods set up when requests should be passed via a proxy server.

=item $ua->proxy(\@schemes, $proxy_url)

=item $ua->proxy($scheme, $proxy_url)

Set/retrieve proxy URL for a scheme:

$ua->proxy(['http', 'ftp'], 'http://proxy.sn.no:8001/');
$ua->proxy('gopher', 'http://proxy.sn.no:8001/');

The first form specifies that the URL is to be used for proxying of access methods listed in the list in the first method argument, i.e. 'http' and 'ftp'.

The second form shows a shorthand form for specifying proxy URL for a single access scheme.

=item $ua->no_proxy( $domain, ... )

Do not proxy requests to the given domains. Calling no_proxy without any domains clears the list of domains. Eg:

$ua->no_proxy('localhost', 'example.com');

=item $ua->env_proxy

Load proxy settings from *_proxy environment variables. You might specify proxies like this (sh-syntax):

    gopher_proxy=http://proxy.my.place/
    wais_proxy=http://proxy.my.place/
    no_proxy="localhost,example.com"
    export gopher_proxy wais_proxy no_proxy

csh or tcsh users should use the C<setenv> command to define these environment variables.

On systems with case insensitive environment variables there exists a name clash between the CGI environment variables and the C<HTTP_PROXY> environment variable normally picked up by env_proxy(). Because of this C<HTTP_PROXY> is not honored for CGI scripts. The C<CGI_HTTP_PROXY> environment variable can be used instead.
Handlers are code that is injected at various phases during the processing of requests. The following methods are provided to manage the active handlers:

```perl
$ua->add_handler( $phase => \&cb, %matchspec )
```

Add handler to be invoked in the given processing phase. For how to specify %matchspec see L<HTTP::Config/"Matching">.

The possible values $phase and the corresponding callback signatures are:

```perl
request_preprepare => sub { my($request, $ua, $h) = @_; ... }
```

The handler is called before the C:request_prepare> and other standard initialization of the request. This can be used to set up headers and attributes that the C:request_prepare> handler depends on. Proxy initialization should take place here; but in general don't register handlers for this phase.

```perl
request_prepare => sub { my($request, $ua, $h) = @_; ... }
```

The handler is called before the request is sent and can modify the request any way it see fit. This can for instance be used to add certain headers to specific requests.

The method can assign a new request object to $_[0] to replace the request that is sent fully.

The return value from the callback is ignored. If an exception is raised it will abort the request and make the request method return a "400 Bad request" response.

```perl
request_send => sub { my($request, $ua, $h) = @_; ... }
```

This handler gets a chance of handling requests before they're sent to the protocol handlers. It should return an HTTP::Response object if it wishes to terminate the processing; otherwise it should return nothing.

The C<response_header> and C<response_data> handlers will not be invoked for this response, but the C<response_done> will be.
This handler is called right after the response headers have been received, but before any content data. The handler might set up handlers for data and might croak to abort the request.

The handler might set the $response->{default_add_content} value to control if any received data should be added to the response object directly. This will initially be false if the $ua->request() method was called with a $content_file or $content_cb argument; otherwise true.

This handler is called for each chunk of data received for the response. The handler might croak to abort the request.

This handler needs to return a TRUE value to be called again for subsequent chunks for the same request.

The handler is called after the response has been fully received, but before any redirect handling is attempted. The handler can be used to extract information or modify the response.

The handler is called in $ua->request after C<response_done>. If the handler returns an HTTP::Request object we'll start over with processing this request instead.

Remove handlers that match the given %matchspec. If $phase is not provided remove handlers from all phases.

Be careful as calling this function with %matchspec that is not not specific enough can remove handlers not owned by you. It's probably better to use the set_my_handler() method instead.

The removed handlers are returned.
Set handlers private to the executing subroutine. Works by defaulting an C<owner> field to the %matchspec that holds the name of the called subroutine. You might pass an explicit C<owner> to override this.

If $cb is passed as C<undef>, remove the handler.

=item $ua->get_my_handler( $phase, %matchspec )

=item $ua->get_my_handler( $phase, %matchspec, $init )

Will retrieve the matching handler as hash ref.

If C<$init> is passed passed as a TRUE value, create and add the handler if it's not found. If $init is a subroutine reference, then it's called with the created handler hash as argument. This sub might populate the hash with extra fields; especially the callback. If $init is a hash reference, merge the hashes.

=item $ua->handlers( $phase, $request )

=item $ua->handlers( $phase, $response )

Returns the handlers that apply to the given request or response at the given processing phase.

=back

=head1 REQUEST METHODS

The methods described in this section are used to dispatch requests via the user agent. The following request methods are provided:

=over

=item $ua->get( $url )

=item $ua->get( $url , $field_name => $value, ... )

This method will dispatch a C<GET> request on the given $url. Further arguments can be given to initialize the headers of the request. These are given as separate name/value pairs. The return value is a response object. See L<HTTP::Response> for a description of the interface it provides.

There will still be a response object returned when LWP can't connect to the server specified in the URL or when other failures in protocol handlers occur. These internal responses use the standard HTTP status codes, so the responses
can't be differentiated by testing the response status code alone. Error
responses that LWP generates internally will have the "Client-Warning" header
set to the value "Internal response". If you need to differentiate these
internal responses from responses that a remote server actually generates, you
need to test this header value.

Fields names that start with "::" are special. These will not
initialize headers of the request but will determine how the response
content is treated. The following special field names are recognized:

:content_file => $filename
:content_cb => \&callback
:read_size_hint => $bytes

If a $filename is provided with the C<:content_file> option, then the
response content will be saved here instead of in the response
object. If a callback is provided with the C<:content_cb> option then
this function will be called for each chunk of the response content as
it is received from the server. If neither of these options are
given, then the response content will accumulate in the response
object itself. This might not be suitable for very large response
bodies. Only one of C<:content_file> or C<:content_cb> can be
specified. The content of unsuccessful responses will always
accumulate in the response object itself, regardless of the
C<:content_file> or C<:content_cb> options passed in.

The C<:read_size_hint> option is passed to the protocol module which
will try to read data from the server in chunks of this size. A
smaller value for the C<:read_size_hint> will result in a higher
number of callback invocations.

The callback function is called with 3 arguments: a chunk of data, a
reference to the response object, and a reference to the protocol
object. The callback can abort the request by invoking die(). The
exception message will show up as the "X-Died" header field in the
response returned by the get() function.

=item $ua->head( $url )

=item $ua->head( $url , $field_name => $value, ... )

This method will dispatch a C<HEAD> request on the given $url.
Otherwise it works like the get() method described above.

=item $ua->post( $url, \%form )

=item $ua->post( $url, \@form )
=item $ua->post( $url, \%form, $field_name => $value, ... )

=item $ua->post( $url, $field_name => $value,... Content => \%form )

=item $ua->post( $url, $field_name => $value,... Content => \@form )

=item $ua->post( $url, $field_name => $value,... Content => $content )

This method will dispatch a C<POST> request on the given $url, with
%form or @form providing the key/value pairs for the fill-in form
content. Additional headers and content options are the same as for
the get() method.

This method will use the POST() function from C<HTTP::Request::Common>
to build the request. See L<HTTP::Request::Common> for a details on
how to pass form content and other advanced features.

=item $ua->put( $url, \%form )

=item $ua->put( $url, \@form )

=item $ua->put( $url, \%form, $field_name => $value, ... )

=item $ua->put( $url, $field_name => $value,... Content => \%form )

=item $ua->put( $url, $field_name => $value,... Content => \@form )

=item $ua->put( $url, $field_name => $value,... Content => $content )

This method will dispatch a C<PUT> request on the given $url, with
%form or @form providing the key/value pairs for the fill-in form
content. Additional headers and content options are the same as for
the get() method.

This method will use the PUT() function from C<HTTP::Request::Common>
to build the request. See L<HTTP::Request::Common> for a details on
how to pass form content and other advanced features.

=item $ua->delete( $url )

=item $ua->delete( $url, $field_name => $value, ... )

This method will dispatch a C<DELETE> request on the given $url. Additional
headers and content options are the same as for the get() method.

This method will use the DELETE() function from C<HTTP::Request::Common>
to build the request. See L<HTTP::Request::Common> for a details on
how to pass form content and other advanced features.
This method will get the document identified by $url and store it in file called $filename. If the file already exists, then the request will contain an "If-Modified-Since" header matching the modification time of the file. If the document on the server has not changed since this time, then nothing happens. If the document has been updated, it will be downloaded again. The modification time of the file will be forced to match that of the server.

The return value is the the response object.

This method will dispatch the given $request object. Normally this will be an instance of the C<HTTP::Request> class, but any object with a similar interface will do. The return value is a response object. See L<HTTP::Request> and L<HTTP::Response> for a description of the interface provided by these classes.

The request() method will process redirects and authentication responses transparently. This means that it may actually send several simple requests via the simple_request() method described below.

The request methods described above; get(), head(), post() and mirror(), will all dispatch the request they build via this method. They are convenience methods that simply hides the creation of the request object for you.

The $content_file, $content_cb and $read_size_hint all correspond to options described with the get() method above.

You are allowed to use a CODE reference as C<content> in the request object passed in. The C<content> function should return the content when called. The content can be returned in chunks. The content function will be invoked repeatedly until it return an empty string to signal that there is no more content.
This method dispatches a single request and returns the response received. Arguments are the same as for request() described above.

The difference from request() is that simple_request() will not try to handle redirects or authentication responses. The request() method will in fact invoke this method for each simple request it sends.

Tries to determine if you have access to the Internet. Returns TRUE if the built-in heuristics determine that the user agent is able to access the Internet (over HTTP). See also L<LWP::Online>.

You can use this method to test whether this user agent object supports the specified C<scheme>. (The C<scheme> might be a string (like 'http' or 'ftp') or it might be an URI object reference.)

Whether a scheme is supported, is determined by the user agent's C<protocols_allowed> or C<protocols_forbidden> lists (if any), and by the capabilities of LWP. I.e., this will return TRUE only if LWP supports this protocol and it's permitted for this particular object.

The following methods will be invoked as requests are processed. These methods are documented here because subclasses of C<LWP::UserAgent> might want to override their behaviour.

This method is invoked by simple_request(). Its task is to modify the given $request object by setting up various headers based on the attributes of the user agent. The return value should normally be the $request object passed in. If a different request object is returned it will be the one actually processed.
The headers affected by the base implementation are; "User-Agent", "From", "Range" and "Cookie".

=item $ua->redirect_ok( $prospective_request, $response )

This method is called by request() before it tries to follow a redirection to the request in $response. This should return a TRUE value if this redirection is permissible. The $prospective_request will be the request to be sent if this method returns TRUE.

The base implementation will return FALSE unless the method is in the object's C<requests_redirectable> list, FALSE if the proposed redirection is to a "file://..." URL, and TRUE otherwise.

=item $ua->get_basic_credentials( $realm, $uri, $isproxy )

This is called by request() to retrieve credentials for documents protected by Basic or Digest Authentication. The arguments passed in is the $realm provided by the server, the $uri requested and a boolean flag to indicate if this is authentication against a proxy server.

The method should return a username and password. It should return an empty list to abort the authentication resolution attempt. Subclasses can override this method to prompt the user for the information. An example of this can be found in C<lwp-request> program distributed with this library.

The base implementation simply checks a set of pre-stored member variables, set up with the credentials() method.

=item $ua->progress( $status, $request_or_response )

This is called frequently as the response is received regardless of how the content is processed. The method is called with $status "begin" at the start of processing the request and with $state "end" before the request method returns. In between these $status will be the fraction of the response currently received or the string "tick" if the fraction can't be calculated.

When $status is "begin" the second argument is the request object, otherwise it is the response object.

=back

=head1 SEE ALSO

See L<LWP> for a complete overview of libwww-perl5. See L<lwpcook>
and the scripts `$lwp-request` and `$lwp-download` for examples of usage.

See `L<HTTP::Request>` and `L<HTTP::Response>` for a description of the message objects dispatched and received. See `L<HTTP::Request::Common>` and `L<HTML::Form>` for other ways to build request objects.

See `L<WWW::Mechanize>` and `L<WWW::Search>` for examples of more specialized user agents based on `C<LWP::UserAgent>`.

=head1 COPYRIGHT

Copyright 1995-2009 Gisle Aas.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-uwAvwIT/libwww-perl-6.05.tar.gz-cosi-expand-archive-qqc8tjsQ/libwww-perl-6.05/lib/LWP/UserAgent.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

`LWP::RobotUA` - a class for well-behaved Web robots

=head1 SYNOPSIS

```perl
use LWP::RobotUA;
my $ua = LWP::RobotUA->new('my-robot/0.1', 'me@foo.com');
$ua->delay(10);  # be very nice -- max one hit every ten minutes!
...

# Then just use it just like a normal LWP::UserAgent:
my $response = $ua->get('http://whatever.int/...');
...
```

=head1 DESCRIPTION

This class implements a user agent that is suitable for robot applications. Robots should be nice to the servers they visit. They should consult the F`/robots.txt` file to ensure that they are welcomed and they should not make requests too frequently.

But before you consider writing a robot, take a look at `<URL:http://www.robotstxt.org/>`.

When you use a `L<LWP::RobotUA>` object as your user agent, then you do not
really have to think about these things yourself; C<robots.txt> files are automatically consulted and obeyed, the server isn't queried too rapidly, and so on. Just send requests as you do when you are using a normal L<WP::UserAgent> object (using C<< $ua->get(...) >>, C<< $ua->head(...) >>, C<< $ua->request(...) >>, etc.), and this special agent will make sure you are nice.

=head1 METHODS

The LWP::RobotUA is a sub-class of LWP::UserAgent and implements the same methods. In addition the following methods are provided:

=over 4

=item $ua = LWP::RobotUA->new( %options )

=item $ua = LWP::RobotUA->new( $agent, $from )

=item $ua = LWP::RobotUA->new( $agent, $from, $rules )

The LWP::UserAgent options C<agent> and C<from> are mandatory. The options C<delay>, C<use_sleep> and C<rules> initialize attributes private to the RobotUA. If C<rules> are not provided, then C<WWW::RobotRules> is instantiated providing an internal database of F<robots.txt>.

It is also possible to just pass the value of C<agent>, C<from> and optionally C<rules> as plain positional arguments.

=item $ua->delay

=item $ua->delay( $minutes )

Get/set the minimum delay between requests to the same server, in I<minutes>. The default is 1 minute. Note that this number doesn't have to be an integer; for example, this sets the delay to 10 seconds:

    $ua->delay(10/60);

=item $ua->use_sleep

=item $ua->use_sleep( $boolean )

Get/set a value indicating whether the UA should sleep() if requests arrive too fast, defined as $ua->delay minutes not passed since last request to the given server. The default is TRUE. If this value is FALSE then an internal SERVICE_UNAVAILABLE response will be generated.
It will have an Retry-After header that indicates when it is OK to send another request to this server.

=item $ua->rules

=item $ua->rules( $rules )

Set/get which I<WWW::RobotRules> object to use.

=item $ua->no_visits( $netloc )

Returns the number of documents fetched from this server host. Yeah I know, this method should probably have been named num_visits() or something like that. :-(

=item $ua->host_wait( $netloc )

Returns the number of I<seconds> (from now) you must wait before you can make a new request to this host.

=item $ua->as_string

Returns a string that describes the state of the UA. Mainly useful for debugging.

=back

=head1 SEE ALSO

L<LWP::UserAgent>, L<WWW::RobotRules>

=head1 COPYRIGHT

Copyright 1996-2004 Gisle Aas.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-uwAvwflT/libwww-perl-6.05.tar.gz-cosi-expand-archive-qqc8tjsQ/libwww-perl-6.05/lib/LWP/RobotUA.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

lwpcook - The libwww-perl cookbook

=head1 DESCRIPTION
This document contains some examples that show typical usage of the libwww-perl library. You should consult the documentation for the individual modules for more detail.

All examples should be runnable programs. You can, in most cases, test the code sections by piping the program text directly to perl.

=head1 GET

It is very easy to use this library to just fetch documents from the net. The LWP::Simple module provides the get() function that returns the document specified by its URL argument:

use LWP::Simple;
$doc = get 'http://search.cpan.org/dist/libwww-perl/';

or, as a perl one-liner using the getprint() function:

perl -MLWP::Simple -e 'getprint "http://search.cpan.org/dist/libwww-perl/"'

or, how about fetching the latest perl by running this command:


You will probably first want to find a CPAN site closer to you by running something like the following command:

perl -MLWP::Simple -e 'getprint "http://www.cpan.org/SITES.html"'

Enough of this simple stuff! The LWP object oriented interface gives you more control over the request sent to the server. Using this interface you have full control over headers sent and how you want to handle the response returned.

use LWP::UserAgent;
$ua = LWP::UserAgent->new;
$ua->agent("$0/0.1 " . $ua->agent);
# $ua->agent("Mozilla/8.0") # pretend we are very capable browser

$req = HTTP::Request->new(
    GET => 'http://search.cpan.org/dist/libwww-perl/');
$req->header('Accept' => 'text/html');
# send request
$res = $ua->request($req);

# check the outcome
if ($res->is_success) {
    print $res->decoded_content;
} else {
    print "Error: " . $res->status_line . "\n";
}

The lwp-request program (alias GET) that is distributed with the library can also be used to fetch documents from WWW servers.

=head1 HEAD

If you just want to check if a document is present (i.e. the URL is valid) try to run code that looks like this:

use LWP::Simple;

if (head($url)) {
    # ok document exists
}

The head() function really returns a list of meta-information about the document. The first three values of the list returned are the document type, the size of the document, and the age of the document.

More control over the request or access to all header values returned require that you use the object oriented interface described for GET above. Just s/GET/HEAD/g.

=head1 POST

There is no simple procedural interface for posting data to a WWW server. You must use the object oriented interface for this. The most common POST operation is to access a WWW form application:

use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my $req = HTTP::Request->new(
    POST => 'http://rt.cpan.org/Public/Dist/Display.html');
$req->content_type('application/x-www-form-urlencoded');
Lazy people use the HTTP::Request::Common module to set up a suitable
POST request message (it handles all the escaping issues) and has a
suitable default for the content_type:

```
use HTTP::Request::Common qw(POST);
use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my $req = POST 'http://rt.cpan.org/Public/Dist/Display.html',
    [ Status => 'Active', Name => 'libwww-perl' ];
print $ua->request($req)->as_string;
```

The lwp-request program (alias POST) that is distributed with the
library can also be used for posting data.

=head1 PROXIES

Some sites use proxies to go through fire wall machines, or just as
cache in order to improve performance. Proxies can also be used for
accessing resources through protocols not supported directly (or
supported badly :-) by the libwww-perl library.

You should initialize your proxy setting before you start sending
requests:

```
use LWP::UserAgent;
$ua = LWP::UserAgent->new;
$ua->env_proxy; # initialize from environment variables
# or
$ua->proxy(ftp => 'http://proxy.myorg.com');
$ua->proxy(wais => 'http://proxy.myorg.com');
$ua->no_proxy(qw(no se fi));

my $req = HTTP::Request->new(GET => 'wais://xxx.com/');
print $ua->request($req)->as_string;
```

The LWP::Simple interface will call env_proxy() for you automatically.
Applications that use the $ua->env_proxy() method will normally not
use the $ua->proxy() and $ua->no_proxy() methods.
Some proxies also require that you send it a username/password in order to let requests through. You should be able to add the required header, with something like this:

```perl
use LWP::UserAgent;

$ua = LWP::UserAgent->new;
$ua->proxy(['http', 'ftp'] => 'http://username:password@proxy.myorg.com');

$req = HTTP::Request->new(GET, "http://www.perl.com");

$res = $ua->request($req);
print $res->decoded_content if $res->is_success;

Replace C<proxy.myorg.com>, C<username> and C<password> with something suitable for your site.
```

=head1 ACCESS TO PROTECTED DOCUMENTS

Documents protected by basic authorization can easily be accessed like this:

```perl
use LWP::UserAgent;
$ua = LWP::UserAgent->new;
$req = HTTP::Request->new(GET => 'http://www.linpro.no/secret/');
$req->authorization_basic('aas', 'mypassword');
print $ua->request($req)->as_string;
```

The other alternative is to provide a subclass of I<LWP::UserAgent> that overrides the get_basic_credentials() method. Study the I<lwp-request> program for an example of this.

=head1 COOKIES

Some sites like to play games with cookies. By default LWP ignores cookies provided by the servers it visits. LWP will collect cookies and respond to cookie requests if you set up a cookie jar.

```perl
use LWP::UserAgent;
use HTTP::Cookies;

$ua = LWP::UserAgent->new;
$ua->cookie_jar(HTTP::Cookies->new(file => "lwpcookies.txt", autosave => 1));

# and then send requests just as you used to do
```
As you visit sites that send you cookies to keep, then the file `lwpcookies.txt` will grow.

=head1 HTTPS

URLs with https scheme are accessed in exactly the same way as with http scheme, provided that an SSL interface module for LWP has been properly installed (see the README.SSL file found in the libwww-perl distribution for more details). If no SSL interface is installed for LWP to use, then you will get "501 Protocol scheme 'https' is not supported" errors when accessing such URLs.

Here's an example of fetching and printing a WWW page using SSL:

```perl
use LWP::UserAgent;
my $ua = LWP::UserAgent->new;
my $req = HTTP::Request->new(GET => 'https://www.helsinki.fi/');
my $res = $ua->request($req);
if ($res->is_success) {
    print $res->as_string;
} else {
    print "Failed: ", $res->status_line, "\n";
}
```

=head1 MIRRORING

If you want to mirror documents from a WWW server, then try to run code similar to this at regular intervals:

```perl
use LWP::Simple;

%mirrors = (  'http://www.sn.no/' => 'sn.html',
              'http://www.perl.com/' => 'perl.html',
              'http://search.cpan.org/distrib/www-perl/' => 'lwp.html',
              'gopher://gopher.sn.no/' => 'gopher.html',
            );

while (($url, $localfile) = each(%mirrors)) {
    mirror($url, $localfile);
}
```

Or, as a perl one-liner:
perl -MLWP::Simple -e 'mirror("http://www.perl.com/", "perl.html")';

The document will not be transferred unless it has been updated.

=head1 LARGE DOCUMENTS

If the document you want to fetch is too large to be kept in memory, then you have two alternatives. You can instruct the library to write the document content to a file (second $ua->request() argument is a file name):

```perl
use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my $req = HTTP::Request->new(GET =>
    'http://www.cpan.org/authors/Gisle_Aas/libwww-perl-6.02.tar.gz');
$res = $ua->request($req, "libwww-perl.tar.gz");
if ($res->is_success) {
    print "ok
";
} else {
    print $res->status_line, "\n";
}
```

Or you can process the document as it arrives (second $ua->request() argument is a code reference):

```perl
use LWP::UserAgent;
$ua = LWP::UserAgent->new;
$URL = 'ftp://ftp.unit.no/pub/rfc/rfc-index.txt';

my $expected_length;
my $bytes_received = 0;
my $res =
    $ua->request(HTTP::Request->new(GET => $URL),
sub {
    my($chunk, $res) = @_;
    $bytes_received += length($chunk);
    unless (defined $expected_length) {
        $expected_length = $res->content_length || 0;
    }
    if ($expected_length) {
        printf STDERR "%d%% - ",
            100 * $bytes_received / $expected_length;
    }
    }
if ($expected_length) {
    printf STDERR "\n",
        100 * $bytes_received / $expected_length;
```
print STDERR "$bytes_received bytes received\n";

# XXX Should really do something with the chunk itself
# print Schunk;
});
print $res->status_line, "\n";

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Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-
uwAvwIT/libwww-perl-6.05.tar.gz-cosi-expand-archive-qqc8tjsQ/libwww-perl-6.05/lwpcook.pod
No license file was found, but licenses were detected in source scan.

LIBWWW-Perl - 6
------------------------

The libwww-perl collection is a set of Perl modules which provides a simple and consistent application programming interface to the World-Wide Web. The main focus of the library is to provide classes and functions that allow you to write WWW clients. The library also contain modules that are of more general use and even classes that help you implement simple HTTP servers.

PREREQUISITES

In order to install and use this package you will need Perl version 5.8.1 or better. Some modules within this package depend on other packages that are distributed separately from Perl. We recommend that you have the following packages installed before you install libwww-perl:

Digest-MD5
Encode-Locale
HTML-Form
HTML-Parser
HTML-Tagset
HTTP-Cookies
If you want to access sites using the https protocol, then you need to install the LWP::Protocol::https module from CPAN.

INSTALLATION

You install libwww-perl using the normal perl module distribution drill:

    perl Makefile.PL
    make
    make test
    make install

If you don't want to install any programs (only the library files) then pass the '--no-programs' option to Makefile.PL:

    perl Makefile.PL --no-programs

DOCUMENTATION

See the lib/LWP.pm file for an overview of the library. See the Changes file for recent changes.

POD style documentation is included in all modules and scripts. These are normally converted to manual pages and installed as part of the "make install" process. You should also be able to use the 'perldoc' utility to extract and read documentation from the module files directly.

SUPPORT

Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list. This mailing list is also the place for general discussions and development of the libwww-perl package.
AVAILABILITY

The latest version of libwww-perl is available from CPAN:

http://search.cpan.org/dist/libwww-perl/

If you want to hack on the source it might be a good idea to grab the latest version with git using the command:

    git clone git://github.com/libwww-perl/libwww-perl.git lwp

You can also browse the git repository at:

    https://github.com/libwww-perl/libwww-perl

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Found in path(s):
* /opt/cola/permits/1137275178_1614044596.01/0/perl-libwww-perl-6.05-2.el7-1.src.rpm-cosi-expand-archive-uwAvwflT/libwww-perl-6.05.tar.gz-cosi-expand-archive-qqc8tjsQ/libwww-perl-6.05/META.yml
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=head1 NAME

LWP::ConnCache - Connection cache manager

=head1 NOTE

This module is experimental. Details of its interface is likely to change in the future.

=head1 SYNOPSIS
use LWP::ConnCache;
my $cache = LWP::ConnCache->new;
$cache->deposit($type, $key, $sock);
$sock = $cache->withdraw($type, $key);

=head1 DESCRIPTION

The C<LWP::ConnCache> class is the standard connection cache manager for LWP::UserAgent.

The following basic methods are provided:

=over

=item $cache = LWP::ConnCache->new( %options )

This method constructs a new C<LWP::ConnCache> object. The only option currently accepted is 'total_capacity'. If specified it initialize the total_capacity option. It defaults to the value 1.

=item $cache->total_capacity( [$num_connections] )

Get/sets the number of connection that will be cached. Connections will start to be dropped when this limit is reached. If set to C<0>, then all connections are immediately dropped. If set to C<undef>, then there is no limit.

=item $cache->capacity($type, [$num_connections] )

Get/set a limit for the number of connections of the specified type that can be cached. The $type will typically be a short string like "http" or "ftp".

=item $cache->drop( [$checker, [$reason]] )

Drop connections by some criteria. The $checker argument is a subroutine that is called for each connection. If the routine returns a TRUE value then the connection is dropped. The routine is called with ($conn, $type, $key, $deposit_time) as arguments.

Shortcuts: If the $checker argument is absent (or C<undef>) all cached connections are dropped. If the $checker is a number then all connections untouched that the given number of seconds or more are dropped. If $checker is a string then all connections of the given type are dropped.

The $reason argument is passed on to the dropped() method.
=item $cache->prune

Calling this method will drop all connections that are dead. This is tested by calling the ping() method on the connections. If the ping() method exists and returns a FALSE value, then the connection is dropped.

=item $cache->get_types

This returns all the 'type' fields used for the currently cached connections.

=item $cache->get_connections( [$type] )

This returns all connection objects of the specified type. If no type is specified then all connections are returned. In scalar context the number of cached connections of the specified type is returned.

=back

The following methods are called by low-level protocol modules to try to save away connections and to get them back.

=over

=item $cache->deposit($type, $key, $conn)

This method adds a new connection to the cache. As a result other already cached connections might be dropped. Multiple connections with the same $type/$key might added.

=item $conn = $cache->withdraw($type, $key)

This method tries to fetch back a connection that was previously deposited. If no cached connection with the specified $type/$key is found, then C<undef> is returned. There is not guarantee that a deposited connection can be withdrawn, as the cache manger is free to drop connections at any time.

=back

The following methods are called internally. Subclasses might want to override them.

=over
This method is called with after a new connection is added (deposited) in the cache or capacity limits are adjusted. The default implementation drops connections until the specified capacity limits are not exceeded.

This method is called when a connection is dropped. The record belonging to the dropped connection is passed as the first argument and a string describing the reason for the drop is passed as the second argument. The default implementation makes some noise if the $LWP::ConnCache::DEBUG variable is set and nothing more.

For specialized cache policy it makes sense to subclass C<LWP::ConnCache> and perhaps override the deposit(), enforce_limits() and dropping() methods.

The object itself is a hash. Keys prefixed with C<cc_> are reserved for the base class.

For 1.2.0-1.tet

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java

jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java
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Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.2955 Isscsi 0.27 4.el7

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1.2957 libsgutils 1.36-1ubuntu1

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* /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-jar/net/minidev/asm/BeansAccess.java
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[The licence continues]

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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John R. Hauser
2018 January 20

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*
*      @(#)mman.h      8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800  /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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*
*      @(#)mman.h     8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
*@(#)mman.h 8.1 (Berkeley) 6/2/93*
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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Key Dates
----------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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Proposals (RFCs):
- https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
- https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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   - Zlib: http://opensource.org/licenses/Zlib

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Contributions using other licenses might be accepted, but further review will be required.

```
= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

== End of sample patch email message ==
```
=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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*/

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
           /* 11 was EAGAIN */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST           17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET EINVAL           22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET.ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65    /* No route to host */
#define TARGET_ENOTEMPTY 66      /* Directory not empty */
/* quotas & mush */
#define TARGET_EPROCLIM 67        /* Too many processes */
#define TARGET_EUSERS 68          /* Too many users */
#define TARGET_EDQUOT 69          /* Disk quota exceeded */
/* Network File System */
#define TARGET_ESTALE 70          /* Stale NFS file handle */
#define TARGET_EREMOTE 71         /* Too many levels of remote in path */
#define TARGET_EBADRPC 72         /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73     /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74     /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75    /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76     /* Bad procedure for program */
#define TARGET_ENOLCK 77          /* No locks available */
#define TARGET_ENOSYS 78          /* Function not implemented */
#define TARGET_EFTYPE 79          /* Inappropriate file type or format */
#define TARGET_EAUTH 80           /* Authentication error */
#define TARGET_ENEEDAUTH 81       /* Need authenticator */
#define TARGET_EIPSEC 82          /* IPsec processing failure */
#define TARGET_EILSEQ 83          /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85       /* No medium found */
#define TARGET_EMEDIUMTYPE 86      /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87       /* Conversion overflow */
#define TARGET_ECANCELED 88       /* Operation canceled */
#define TARGET_EIDRM 89           /* Identifier removed */
#define TARGET_ENOMSG 90          /* No message of desired type */
#define TARGET_ELAST 90           /* Must be equal largest errno */

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 */

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[ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL ],
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<thead>
<tr>
<th>Function Name</th>
<th>Description</th>
<th>Arguments</th>
</tr>
</thead>
<tbody>
<tr>
<td>adjtime</td>
<td>time</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>bind</td>
<td>bind</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>break</td>
<td>break</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>chdir</td>
<td>change directory</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>chmod</td>
<td>change mode of file</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>chown</td>
<td>change owner of file</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>chroot</td>
<td>change root</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>clock_getres</td>
<td>get clock resolution</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>clock_gettime</td>
<td>get clock time</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>clock_settime</td>
<td>set clock time</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>close</td>
<td>close file descriptor</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>connect</td>
<td>connect</td>
<td>NULL, NULL, NULL</td>
</tr>
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<td>dup</td>
<td>duplicate file descriptor</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>dup2</td>
<td>duplicate file descriptor</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>eaccess</td>
<td>access</td>
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<td>fchdir</td>
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<td>lock file</td>
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<td>fork</td>
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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

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Open Source Used In Tetration 3.5.1 31502
#ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../../../

LDFLAGS=
ASFLAGS= -L./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS	= -UDEBUG -m64 -I. -I./include -I/x86emu \\
        -I$(TOP)/clients/net-snк/include -I$(ROOTDIR)/include \\
        -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \\
        -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
  $(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
  $(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
  $(AR) -rc $@ $(X86EMU_OBJS) 
  $(RANLIB) $@

clean:
  $(RM) *.o *.i *.s libx86emu.a

distclean: clean
  /* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
 * System call numbers.
 *
 * created from; $OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2

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#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup         41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl      54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_signalf 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_ifs_bmapv 184
#define TARGET_OPENBSD_NR_ifs_markv 185
#define TARGET_OPENBSD_NR_ifs_segclean 186
#define TARGET_OPENBSD_NR_ifs羖segw 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_getdirentries 195
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR___syscall 201
#define TARGET_OPENBSD_NR_ifs_bmapv 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR___syscall 204
#define TARGET_OPENBSD_NR___syscall 205
#define TARGET_OPENBSD_NR_getpgid 206
#define TARGET_OPENBSD_NR_xctpiot 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR___syscall 226
#define TARGET_OPENBSD_NR_msgsnd 227
#define TARGET_OPENBSD_NR___syscall 228
#define TARGET_OPENBSD_NR___syscall 229
#define TARGET_OPENBSD_NR___syscall 230
#define TARGET_OPENBSD_NR___syscall 231
#define TARGET_OPENBSD_NR___syscall 232
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#define TARGET_OPENBSD_NR___syscall 252
#define TARGET_OPENBSD_NR___syscall 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_signalstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgrctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* SOpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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John R. Hauser
2018 January 20

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<tr>
<td>md5 contributions</td>
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</tr>
</tbody>
</table>

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */

/*
 * System call numbers.
 *
 * created fromNetBSD: sysscall.h,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_olseek 8
#define TARGET_NETBSD_NR_compat_43__fchdir 9
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#define TARGET_NETBSD_NR_chdir 12
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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags  35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid  39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
#define TARGET_FREEBSD_NR_pipe  42
#define TARGET_FREEBSD_NR_getegid   43
#define TARGET_FREEBSD_NR_profil    44
#define TARGET_FREEBSD_NR_ktrace    45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid    47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin  49
#define TARGET_FREEBSD_NR_setlogin  50
#define TARGET_FREEBSD_NR_acct  51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot    55
#define TARGET_FREEBSD_NR_revoke    56
#define TARGET_FREEBSD_NR_symlink   57
#define TARGET_FREEBSD_NR_readlink  58
#define TARGET_FREEBSD_NR_execve    59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot    61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise   72
#define TARGET_FREEBSD_NR_munmap    73
#define TARGET_FREEBSD_NR_mprotect  74
#define TARGET_FREEBSD_NR_madvise   75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore   78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp   81
#define TARGET_FREEBSD_NR_setpgid   82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
 /* 101 is old send */
 /* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlmsyscall 154
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_npt_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_getsetrlimit 195
#define TARGET_FREEBSD_NR_getdirent 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR__futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_luo_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR___acl_get_file 359
#define TARGET_FREEBSD_NR___acl_set_file 360
#define TARGET_FREEBSD_NR___acl_delete_file 361
#define TARGET_FREEBSD_NR___acl_aclcheck_file 362
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 363
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#define TARGET_FREEBSD_NR___acl_aclcheck_fd 402
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR___umtx_lock 434
#define TARGET_FREEBSD_NR___umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NRAuditctl 453
#define TARGET_FREEBSD_NR___umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
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#define TARGET_FREEBSD_NR_gssd_syscall 505
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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Key Dates
----------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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* April 9, 2019

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1

The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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=====================================================================
= Change Description / Commit Message / Patch Email =
=====================================================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached
== End of sample patch email message ==

== Notes for sample patch email ==

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

== Definitions for sample patch email ==

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change. The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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=========================================

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  of this Agreement in any other language shall be for accommodation
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1. Create a change description in the format specified below to
  use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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Contributions using other licenses might be accepted, but further review will be required.

================================================================================================

= Change Description / Commit Message / Patch Email =

================================================================================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===
* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

```=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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-- Wolfgang Denk

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RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
    void X86EMU_trace_regs (void)
    {
        if (DEBUG_TRACE()) {
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
            x86emu_dump_regs();
        }
```c
+x86emu_dump_xregs();
+} else {
+x86emu_dump_regs();
+}
}

if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
    @ @ -185.7 +189.7 @ @
    for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
    }
    printk("%-20s",buf1);
    + printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = (u16)target;
        +JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    + DECODE_CLEAR_SEQOVR();
+    + END_OF_INSTR();
+    +
+    +
+    +
+/*%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%**
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%**/
+s32 x86emu_bswap(s32 reg)
+{
+    // perform the byte swap
+    s32 temp = reg;
+    reg = (temp & 0xFF000000) >> 24;
+    reg |= (temp & 0xFF0000) >> 8;
+    reg |= (temp & 0xFF00) << 8;
```
reg |= (temp & 0xFF) << 24;
return reg;
}

void x86emuOp2_bswap(u8 op2)
{
  /* byte swap 32 bit register */
  START_OF_INSTR();
  DECODE_PRINTF("BSWAP\t");
  switch (op2) {
    case 0xc8:
      DECODE_PRINTF("EAX\n");
      M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
      break;
    case 0xc9:
      DECODE_PRINTF("ECX\n");
      M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
      break;
    case 0xca:
      DECODE_PRINTF("EDX\n");
      M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
      break;
    case 0xcb:
      DECODE_PRINTF("EBX\n");
      M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
      break;
    case 0xcc:
      DECODE_PRINTF("ESP\n");
      M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
      break;
    case 0xcd:
      DECODE_PRINTF("EBP\n");
      M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
      break;
    case 0xce:
      DECODE_PRINTF("ESI\n");
      M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
      break;
    case 0xcf:
      DECODE_PRINTF("EDI\n");
      M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
      break;
  }
  TRACE_AND_STEP();
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}

@@ -1702,14 +1763,14 @@
/
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+
/* 0xc8 */ x86emuOp2_bswap,
/* 0xc9 */ x86emuOp2_bswap,
/* 0xca */ x86emuOp2_bswap,
/* 0xcb */ x86emuOp2_bswap,
/* 0xcc */ x86emuOp2_bswap,
/* 0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSHf\%d\n", imm);
 TRAC...
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(val1, val2);
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
    @@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long((u16)val1, (u16)val2);
        }
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
if (M.x86.intr & INTR_HALTED)
break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--)
@@ -2795,6 +2826,8 @@
store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALTED)
break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2871,6 +2911,8 @@
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;

if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                - M.x86.R_CX -= 1;
                + if (M.x86.mode & SYSMODE_32BIT_REP)
                    M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
                if (ACCESS_FLAG(F_ZF) == 0)
                    break;
                + if (M.x86.intr & INTR_HALTED)
                    break;
            }  
            break;
    }  
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                - M.x86.R_CX -= 1;
                + if (M.x86.mode & SYSMODE_32BIT_REP)
                    M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
                if (ACCESS_FLAG(F_ZF))
                    break;  /* zero flag set means equal */
                + if (M.x86.intr & INTR_HALTED)
                    break;
            }  
            break;
    }  
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {

    TRACING_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        - /* move them until CX is ZERO. */
    }
- while (M.x86.R_CX != 0) {  
+ /* move them until (E)CX is ZERO. */  
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {  
+       if (M.x86.mode & SYSMODE_PREFIX_DATA) {  
+           val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);  
+           cmp_long(M.x86.R_EAX, val);  
+       }  
-       M.x86.R_CX -= 1;  
+       if (M.x86.mode & SYSMODE_32BIT_REP)  
+           M.x86.R_ECX -= 1;  
+       else  
+           M.x86.R_CX -= 1;  
+       M.x86.R_DI += inc;  
+       if (ACCESS_FLAG(F_ZF))  
+           break;  
+       if (M.x86.intr & INTR_HALTED)  
+           break;  
+   }  
   M.x86.mode &= ~SYSMODE_PREFIX_REPE;  
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {  
   /* REPNE */  
-   /* move them until CX is ZERO. */  
-   while (M.x86.R_CX != 0) {  
+   /* move them until (E)CX is ZERO. */  
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {  
+       if (M.x86.mode & SYSMODE_PREFIX_DATA) {  
+           val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);  
+           cmp_long(M.x86.R_EAX, (u16)val);  
+       }  
-       M.x86.R_CX -= 1;  
+       if (M.x86.mode & SYSMODE_32BIT_REP)  
+           M.x86.R_ECX -= 1;  
+       else  
+           M.x86.R_CX -= 1;  
+       M.x86.R_DI += inc;  
+       if (ACCESS_FLAG(F_ZF) == 0)  
+           break;  
+       if (M.x86.intr & INTR_HALTED)  
+           break;  
+   }  
   M.x86.mode &= ~SYSMODE_PREFIX_REPE;  
}
@@ -3238,9 +3300,9 @@
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
  -RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_IP = pop_word();
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3254,9 +3316,9 @@
 { 
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3471,10 +3533,10 @@
 { 
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4020,8 +4082,11 @@
  ip += (s16) M.x86.R_IP;
}
DECODE_PRINTF2("%04x", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)
* (E)CX != 0 */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+   
+DECODE_CLEAR_SEGOVR();
+END_OF_INSTR();
+
/*@ -4213,6 +4286,7 @@*/
+ip = (s16)fetch_word_imm();
+ip += (s16)M.x86.R_IP;
+DECODE_PRINTF2("%04x\n", ip);
+  
+  
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
+TRACExAND_STEP();
+M.x86.R_IP = (u16)ip;
+DECODECLEAR_SEGOVR();
+@
+@@ -4233,6 +4307,7 @@*/
+cs = fetch_word_imm();
+DECODE_PRINTF2("%04x: ", cs);
+DECODE_PRINTF2("%04x\n", ip);
+  
+  
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
+TRACExAND_STEP();
+M.x86.R_IP = ip;
+M.x86.R_CS = cs;
+@
+@@ -4254,6 +4329,7 @@*/
+offset = (s8)fetch_byte_imm();
+target = (u16)(M.x86.R_IP + offset);
+DECODE_PRINTF2("%x\n", target);
+  
+  
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
+TRACExAND_STEP();
+M.x86.R_IP = target;
+DECODECLEAR_SEGOVR();
+@
+@@ -4357,6 +4433,8 @@*/
+DECODE_PRINTF("REPNE\n");
+TRACExAND_STEP();
+M.x86.mode |= SYSMODE_PREFIX_REPNE;
+  
+if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+  
+M.x86.mode |= SYSMODE_32BIT_REP;
+DECODECLEAR_SEGOVR();
+END_OF_INSTR();
+}
break;
    case 4: /* jmp word ptr */
        destval = fetch_data_word(destoffset);
        + JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5: /* jmp far ptr */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
        + JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c	16 Jan 2008 14:18:15 -0000	1.3
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 {
    #ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
 void mul_long(u32 s)
 {
    #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
 }
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */

+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.R_ECX : M.x86.R_CX);
-
    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
+            M.x86.R_ECX = 0;
+        }
+    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
-        if (M.x86.mode & SYSMODE_32BIT_REP) {
-            M.x86.R_ECX = 0;
-        }
-    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c7 Sep 2007 10:01:21 -0000
+++ sys.c7 Sep 2007 10:03:13 -0000.1
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>

Open Source Used In Tetration 3.5.1 31637
#ifndef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("inb %#04x \n", addr);
 -return inb(addr);
+return 0;
 }

/***************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("inw %#04x \n", addr);
 -return inw(addr);
+return 0;
 }

/***************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("inl %#04x \n", addr);
 -return inl(addr);
+return 0;
 }

/***************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("outb %#02x -> %#04x \n", val, addr);
 -outb(val, addr);
 return;
 }

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("outw %#04x -> %#04x \n", val, addr);
 -outw(val, addr);
 return;
 }

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE()))
    printk("outl %#08x -> %#04x \n", val, addr);

-outl(val, addr);
return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
-    M.mem_base = (int) base;
+    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
# define DEBUG_SYSINT()        	(M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     	(M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() 	(M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           	(M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     	(M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      	(M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT() 0
# define DEBUG_TRACECALL() 0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
 # define DEBUG_SYS() 0
# define DEBUG_MEM_TRACE()     	0
# define DEBUG_IO_TRACE()      	0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                                     \
if (DEBUG_TRACECALL())                                     	\printf("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                                    \
+# define RETURN_TRACE(u,v,w,x,s)                                    
if (DEBUG_TRACECALLREGS())
  x86emu_dump_regs();                                     \
  if (DEBUG_TRACECALL())                                     	\-println("%04x:%04x: %s
",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x
",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                                 
+   if (DEBUG_TRACEJMPREGS()) 
+      x86emu_dump_regs(); 
+   if (DEBUG_TRACEJMP()) 
+      printk("%04x:%04x: JMP %s%04x:%04x
", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)                                  
-# define RETURN_TRACE(n,u,v)                                    
+# define RETURN_TRACE(u,v,w,x,s)                                    
+# define  JMP_TRACE(u,v,w,x,s)
@endif

#endif DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE   0x00000100
 #define SYSMODE_PREFIX_DATA   0x00000200
 #define SYSMODE_PREFIX_ADDR   0x00000400
+#define SYSMODE_32BIT_REP     0x00000800
+//phueper: for REP[E|NE] Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP     0x00000800
 #define SYSMODE_INTR_PENDING  0x10000000
 #define SYSMODE_EXTRN_INTR    0x20000000
 #define SYSMODE_HALTED        0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS      | \
 SYSMODE_SEGOVR_SS      | \
 SYSMODE_PREFIX_DATA    | \
Open Source Used In Tetration 3.5.1 31640
```c
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR  |\ 
+ SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTRASYNCH 0x2
@@ -274,9 +278,9 @@
 */
 u32 mode;
 volatile int intr; /* mask of pending interrupts */
-int debug;
+  volatile int debug;
#if defined DEBUG
-int check;
+  int check;
  u16 saved_ip;
  u16 saved_cs;
  int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+  #include <stdio.h>
  #define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#endif  __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-```
#!/bin/bash

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/* .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

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History
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Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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This is the software license for Capstone disassembly framework.
Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1].

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--------------------------

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2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type:

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If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "A*\/*" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

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```
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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package simulator

import (
  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/mo"
  "github.com/vmware/govmomi/vim25/soap"
  "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:    "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "feature",
             Value: types.KeyValue{
                 Key: "feature",
                 Value: types.KeyValue{
                     Key: "feature",
                     Value: types.KeyValue{
                     }}}}}}}}
Key: "serialuri:2",
Value: "Remote virtual Serial Port Concentrator",
},
},
{
Key: "feature",
Value: types.KeyValue{
Key: "dvs",
Value: "vSphere Distributed Switch",
},
},
},
}

type LicenseManager struct {
mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{ },
}

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{},
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
    m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
    return body
}
}

return body

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)

    for j := range license.Labels {
        label := &license.Labels[j]

        if label.Key == req.LabelKey {
            if req.LabelValue == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
            } else {
                label.Value = req.LabelValue
            }
            return body
        }
    }
    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })
return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

}
type LicenseAssignmentManager struct {
mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}
if Map.Get(id) == nil {
return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
info := EvalLicense

info-LicenseKey = key
info.Labels = labels
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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "%v" ", n.Plugin)
    } else {
        s += fmt.Sprintf("Option "%v" in plugin "%v" ", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(" It is replaced by "%v" ", n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
)
newdefault = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.

unsupported = "unsupported"  // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all"  // show all statuses

)  
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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

---

Open Source Used In Tetration 3.5.1 32333
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>`.

- `<namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

runc

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Feb, 2010

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tomb - support for clean goroutine termination in Go.

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
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------------------------------------------------------------------------------

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import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
 * A <code>CopyingRangeMarker</code> can be used to track positions when executing
 * text edits. Additionally a copying range marker stores a local copy of the
 * text it captures when it gets executed.
 * @since 3.0
 */
public final class CopyingRangeMarker extends TextEdit {

    private String fText;

    /**
     * Creates a new <tt>CopyRangeMarker</tt> for the given
     * offset and length.
     * @param offset the marker's offset
     * @param length the marker's length
     */
    public CopyingRangeMarker(int offset, int length) {
        super(offset, length);
    }

    /*
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    package org.eclipse.text.edits;

    import org.eclipse.jface.text.BadLocationException;
    import org.eclipse.jface.text.IDocument;

    /**
     * A <code>CopyingRangeMarker</code> can be used to track positions when executing
     * text edits. Additionally a copying range marker stores a local copy of the
     * text it captures when it gets executed.
     * @since 3.0
     */
    public final class CopyingRangeMarker extends TextEdit {

        private String fText;

        /**
         * Creates a new <tt>CopyRangeMarker</tt> for the given
         * offset and length.
         * @param offset the marker's offset
         * @param length the marker's length
         */
        public CopyingRangeMarker(int offset, int length) {
            super(offset, length);
        }

        /*...*/
* Copy constructor
*
private CopyingRangeMarker(CopyingRangeMarker other) {
    super(other);
    fText = other.fText;
}

/* non Java-doc
 * @see TextEdit#doCopy
 */
protected TextEdit doCopy() {
    return new CopyingRangeMarker(this);
}

/* non Java-doc
 * @see TextEdit#accept0
 */
protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/* non Java-doc
 * @see TextEdit#performDocumentUpdating
 */
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText = document.get(getOffset(), getLength());
    fDelta = 0;
    return fDelta;
}

/* non Java-doc
 * @see TextEdit#deleteChildren
 */
/* package */ boolean deleteChildren() {
    return false;
}


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2000-05-05

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1.3003 rank-eval-client 6.7.0

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1.3005 kerberos 1.18.2

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lib/krb5/kadm/kdb_hdr.h

lib/krb5/kadm/kdb_log.c

lib/krb5/kadm/kdb_log.h

lib/libgss/g_accept_sec_context.c

lib/libgss/g_acquire_cred.c

lib/libgss/g_canon_name.c

lib/libgss/g_compare_name.c

lib/libgss/g_context_time.c

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lib/libgss/g_imp_sec_context.c

lib/libgss/g_init_sec_context.c

lib/libgss/g_initialize.c

lib/libgss/g_inquire_context.c

lib/libgss/g_inquire_cred.c

lib/libgss/g_inquire_names.c

lib/libgss/g_process_context.c

lib/libgss/g_rel_buffer.c

lib/libgss/g_rel_cred.c

lib/libgss/g_rel_name.c

lib/libgss/g_rel_oid_set.c

lib/libgss/g_seal.c

lib/libgss/g_sign.c

lib/libgss/g_store_cred.c

lib/libgss/g_unseal.c

lib/libgss/g_userok.c

lib/libgss/g_utils.c

lib/libgss/g_verify.c

lib/libgss/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h

uts/common/gssapi/include/mechglueP.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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    <!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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    <xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

        <xsl:template name="isc.copyright.format">
            <xsl:param name="text"/>
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            <xsl:variable name="text" select="normalize-space(substring-before($text, '&#10;'))"/>
            <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
            <xsl:if test="translate($rest, '&#9;&#32;', '')">
                <xsl:call-template name="isc.copyright.format">
                    <xsl:with-param name="text" select="$rest"/>
                </xsl:call-template>
            </xsl:if>  
        </xsl:template>

    </xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c02bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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    <xsl:param name="text" />
    <xsl:value-of select="$isc.copyright.leader" />
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))" />
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')" />
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest" />
      </xsl:call-template>
    </xsl:if>
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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If such an object file uses only numerical parameters, data
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1.3038 libglvnd 1.0.1 0.8.git5baa1e5.el7
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<link rel="stylesheet" type="text/css" href="styles.css" />
<title>uthash: a hash table for C structures</title>
</head>
<body>
<div id="banner">
<img src="banner.png" alt="uthash: a hash table for C structures" />
</div><!-- banner -->
<hr />
<div id="topnav">
<a href="http://troydhanson.github.com/uthash/">uthash home</a> >
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</div>
<hr />
<div id="mid">
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<div id="main">
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1.3041 eclipse-equinox-registry

3.5.400.v20140428-1507

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BIRT Runtime

What is it?

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

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You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console

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In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
3. generate the report by run
   genReport xxx.rptdesign
   xxx.rptdesign is the design file. If the design file is in the current directory, you have to specify it by \xxx.rptdesign
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BIRT Team

<http://www.eclipse.org/birt>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018977128_1591906785.94/0/org-eclipse-equinox-registry-3.5-400-v20140428-1507-sources-jar/runtime_readme.txt

1.3042 util-linux 2.23.2 63.el7

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Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Initialize empty image
f1c9645dcb14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start   End      Blocks   Id  System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start   End      Blocks   Id  System
__ts_dev__1  2048   4095    1024   83  Linux

Create 2st primary partition
1beb87248e05d6e462b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529eb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0     0 0</td>
</tr>
<tr>
<td>d:</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0     0 0</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
Command (m for help):

--------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a:</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0     0 0</td>
</tr>
<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0     0 0</td>
</tr>
<tr>
<td>d:</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0     0 0</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
Command (m for help):
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

1.3043 ding-libs 0.1.1-32.el7

1.3043.1 Available under license:

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Version 3, 29 June 2007

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1.3044 tdb 1.3.15-1.el7

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1.3045 curl 7.29.0-57.el7
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GnuTLS http://www.gnutls.org/

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cares  http://daniel.haxx.se/projects/cares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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fbopenssl

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libidn  http://josefsson.org/libidn/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

1.3046 typesafe-config 1.2.1

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* /opt/cola/permits/1136414535_1613765502.42/0/rocksdbjni-5-0-1-sources-1-jar/org/rocksdb/Env.java
* /opt/cola/permits/1136414535_1613765502.42/0/rocksdbjni-5-0-1-sources-1-jar/org/rocksdb/AbstractCompactionFilter.java
1.3048 python-paramiko 1.7.5-5.el6_10

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1.3052 vim 7.4.052-1ubuntu3.1

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*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

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II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
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      a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely
impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as
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unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of
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context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict others from
making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned
under c), you can distribute it without the source code for the
changes if the following three conditions are met:
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permits the Vim maintainer to include the changes in the official
version of Vim without fee or restriction.
- You keep the changes for at least three years after last
distributing the corresponding modified Vim. When the maintainer
or someone who you distributed the modified Vim to asks you (in
any way) for the changes within this period, you must make them
available to him.
- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding modified Vim, or as long
as possible.

e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.

3) A message must be added, at least in the output of the ":version"
command and in the intro screen, such that the user of the modified Vim
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not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>
IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.
The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my
personal guarantee as the author of Vim. I trust the people that are working
at the centre, I know them personally. Further more, the centre has been
co-sponsored and inspected by World Vision, Save the Children Fund and is now
under the supervision of Pacific Academy Outreach Society. The centre is
visited about once a year to check the progress (at our own cost). I have
visited the centre myself many times, starting in 1993. The visit reports are
on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): ”Abraham Moolenaar”. Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See ”Others” below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It’s
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
   Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
   Swift code: INGB NL 2A
   IBAN: NL95 INGB 0004 5487 74
   under the name ”stichting ICCF Holland”, Lisse
   If that doesn't work:
      Rabobank Lisse, account 3765.05.117
   Swift code: RABO NL 2U
   under the name ”Bram Moolenaar”, Lisse
   Otherwise, send a check in euro or US dollars to the address
   below. Minimal amount: $70 (my bank does not accept smaller
   amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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Voice phone:  (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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1.3054 libseccomp 2.1.1-1ubuntu1~trusty5

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/SimpleLoggerFactory.java
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* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2.jar/org/slf4j/impl/SimpleLogger.java

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.3070 postgresql 9.3.24-0ubuntu0.14.04

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PostgreSQL Database Management System
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<html>
<head>
<meta name="generator" content="Modular DocBook HTML Stylesheet Version 1.79">
<link rel="made" href="mailto:pgsql-docs@postgresql.org">
<link rel="home" title="PostgreSQL 9.3.24 Documentation" href="index.html">
<link rel="next" title="Preface" href="preface.html">
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...
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diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile

*** bsd_indent/Makefile Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/Makefile Wed Oct 12 12:17:12 2011
***************
*** 2,10 ****
# Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
#
! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o

***************
*** 31,37 ****
clean:
rm -f *.o $(TARGET) log core
! install:
! make clean
! make CFLAGS=-O
install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
rm -f *.o $(TARGET) log core

! install: $(TARGET)
install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005
***************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ ******************************************************************************
+
+ This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
***************
*** 83,88 ****
--- 83,90 ----
    #include "string.h"
    #include "indent_globs.h"
+
    #define INDENT_PG_VERSION"1.1"
+
    /* profile types */
    #definePRO_SPECIAL/* special case */
    #definePRO_BOOL2/* boolean */

    *******************
*** 99,106 ****
--- 101,113 ----
    #defineSTDIN/* use stdin */
#define KEY 4 /* type (keyword) */

+ #define KEY_FILE 5 /* only used for args */
+ #define VERSION 6 /* only used for args */
+
char *option_source = "?";

+ void add_typedefs_from_file(char *str);
+
/*
 * N.B.: because of the way the table here is scanned, options whose names are
 * substrings of other options must occur later; that is, with -lp vs -l, -lp

***************
*** 118,123 ****
--- 125,136 ----
"T", PRO_SPECIAL, 0, KEY, 0
},
{ + "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ },
{ + "V", PRO_SPECIAL, 0, VERSION, 0
+ },
{ "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
 }
{ ***************
*** 425,430 ****
--- 438,456 ----
}
break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
default:
fprintf(stderr, "\n"
indent: set_option: internal error: p_special %d\n", p->p_special);

***************

*** 459,461 ****
--- 485,508 ----
exit(1);
}
+
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *
+ *(line + strcsn(line, " \t\n\r")) = '0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }

Only in pg_bsd.indent: args.o
Only in pg_bsd.indent: indent.bsd.patch
Only in pg_bsd.indent: indent.o

diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h

 *** bsd_indent/indent_globs.hWed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.hMon Nov 14 19:30:24 2005

***************

*** 239,245 ****

scomf,/* Same line comment font */
bodyf;/* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
int last_token;

--- 239,249 ----

scomf,/* Same line comment font */
bodyf;/* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
!
! #define STACK_SIZE 1000

EXTERN struct parser_state {
int last_token;
}

Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
--- bsd_indent/lexi.c	Wed Oct 26 17:13:34 2011
+++ pg_bsd_indent/lexi.c	Mon Nov 14 19:30:24 2005

***************
*** 93,99 ****
in int rwcode;
};

! struct templ specials[1000] =
{
"switch", 1,
"case", 2,
--- 93,99 ----
in int rwcode;
};

! struct templ specials[16384] =
{
"switch", 1,
"case", 2,
***************
*** 622,629 ****
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
! return/* For now, table overflows are silently
! * ignored */
p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;
--- 622,632 ----
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
! {
! fprintf(stderr, "indent: typedef table overflow\n");
! exit(1);
! }
! p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;

Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
***************
*** 231,236 ****
--- 231,241 ----
}		/* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+   fprintf(stderr, "indent: stack size overflow\n");
+   exit(1);
+ }
+ reduce();/* see if any reduction can be done */

#ifdef debug

Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
***************
*** 148,154 ****
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '"' || *buf_ptr == '\n') {
ps.box_com = true; /* a comment with a '-', '"'
* or newline immediately
* after the start comment is
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! /*
! * Don't process '\n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '"') {
ps.box_com = true; /* a comment with a '-', '"'
* or newline immediately
* after the start comment is
***************
*** 328,333 ****
--- 322,350 ----

goto end_of_comment;

} while (*buf_ptr == ' ' || *buf_ptr == '\n');
+
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+  *e_com++ = ' ';/* add blanks for continuation */
+  *e_com++ = ' ';
+  *e_com++ = ' ';
+  now_col += 3;
+  }
} else
else
if (++buf_ptr >= buf_end)
fill_buffer();
Only in pg_bsd_indent: pr_comment.o
<!-- doc/src/sgml/legal.sgml -->

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Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on `stderr`, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.
sets or
examines the current notice receiver for a connection object.
Similarly, \texttt{PQsetNoticeProcessor} sets or
examines the current notice processor.

\texttt{typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);} 
\begin{verbatim}
PQnoticeReceiver 
PQsetNoticeReceiver(PGconn *conn, 
PQnoticeReceiver proc, 
   void *arg); 
\end{verbatim}

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

\begin{verbatim}
PQnoticeProcessor 
PQsetNoticeProcessor(PGconn *conn, 
PQnoticeProcessor proc, 
   void *arg); 
\end{verbatim}

Each of these functions returns the previous notice receiver or
processor function pointer, and sets the new value. If you supply a
null function pointer, no action is taken, but the current pointer is
returned.

When a notice or warning message is received from the server, or
generated internally by \texttt{libpq}, the notice
receiver function is called. It is passed the message in the form of
a \texttt{PGRES\_NONFATAL\_ERROR}.
(This allows the receiver to extract individual fields using `<CODE CLASS="FUNCTION">PQresultErrorField</CODE>`, or the complete preformatted message using `<CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>`) The same void pointer passed to `<CODE CLASS="FUNCTION">PQsetNoticeReceiver</CODE>` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `<CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `<CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE>`. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```c
static void defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect
that function could be called as long as either the
<TT CLASS="STRUCTNAME">PGconn</TT> object or <TT CLASS="STRUCTNAME">PGresult</TT> objects made
from it exist. At creation of a <TT CLASS="STRUCTNAME">PGresult</TT>, the
<TT CLASS="STRUCTNAME">PGconn</TT>'s current notice handling pointers are copied
into the <TT CLASS="STRUCTNAME">PGresult</TT> for possible use by functions like
<CODE CLASS="FUNCTION">PQgetvalue</CODE>.

</P>
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<tr>
<th>Width (%)</th>
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<th>Value</th>
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</table>
1.3072 commons-fileupload 62

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* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/dao/TaskCounterGroupInfo.java

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  jar/org/apache/hadoop/mapreduce/v2/app/webapp/JAXBContextResolver.java
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  jar/org/apache/hadoop/mapreduce/v2/app/webapp/NavBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/job/event/TaskAttemptContainerAssignedEvent.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/job/event/TaskAttemptDiagnosticsUpdateEvent.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/job/event/TaskAttemptEventType.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/WrappedJvmID.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/MapTaskAttemptImpl.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/rm/RMCommunicator.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/job/Job.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/job/Task.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/speculate/TaskSpeculationPredicate.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/CountersBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/CountersBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/CountersBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/CountersBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/CountersBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/CountersBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/webapp/CountersBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/job/TaskAttemptListener.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/job/event/TaskAttemptListener.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/job/event/TaskAttemptListener.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/job/event/TaskAttemptListener.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/v2/app/jvm/MapReduceChildJVM.java
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* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapred/YarnChild.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/rm/RMContainerAllocator.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/ControlledClock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/webapp/ConfBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/rm/ContainerRequestEvent.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/webapp/JobsBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapred/TaskAttemptListenerImpl.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/webapp/SingleCounterBlock.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/job/event/JobEventType.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/launcher/ContainerLauncherImpl.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/launcher/ContainerLauncherImpl.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1.jar/org/apache/hadoop/mapreduce/v2/app/job/event/TaskTAttemptEvent.java

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* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/client/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/security/authorize/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/speculate/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/commit/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/job/impl/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/metrics/MRAppMetrics.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/launcher/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/local/package-info.java
* /opt/cola/permits/1138242389_1614277758.04/0/hadoop-mapreduce-client-app-2-2-0-sources-1-
  jar/org/apache/hadoop/mapreduce/v2/app/security/package-info.java

1.3075 geoip-database 20140313-1
1.3075.1 Available under license:

This package was created on Tue, 18 Jan 2011 22:22:30 +0100 from
Patrick Matthi <pmatthaei@debian.org>.

Here you can get the databases: http://geolite.maxmind.com/download/geoip/database/

Upstream Author: T.J. Mather <tjmather@maxmind.com>

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1.3076 tomcat-jdbc 7.0.52

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1.3077 libgcrypt 1.5.3-2ubuntu4.6

1.3077.1 Available under license :

This package was debianized by Ivo Timmermans <ivo@debian.org> on Fri, 3 Aug 2001 10:02:38 +0200.
It was taken over by Matthias Urlichs <smurf@debian.org>, and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from http://ftp.gnupg.org/gcrypt/libgcrypt/.

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Code marked with ChangeLog entries of g10 Code employees.

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mpi/hppa1.1/mpi-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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============
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Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been taken from the original NTT provided GPL source.

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/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
   intended for inclusion in X11 public releases. */

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1.3091 swagger-jersey2-jaxrs 1.5.10

1.3092 cairo 1.13.0~20140204-0ubuntu1.1
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3.20190618.0ubuntu0.14.04.1

1.3101 xz 5.1.1alpha+20120614 2ubuntu2
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==================

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Nori Korean Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ko-dic-2.0.3-20170922

which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.3107 jline-style 3.8.2
1.3108 okio 1.6.0

1.3109 animal-sniffer-annotation 1.17

1.3110 cracklib 2.9.1-1build1
1.3110.1 Available under license :

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[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
On Monday 01 October 2007, Neulinger, Nathan wrote:
>
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

The original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. It isn't the place of a library to dictate to application writes what license they should be using.

Thus LGPL-2.1 enters to fill this void.

--mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

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-mike

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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

-a

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
   > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
   > I am sympathetic. Guys, what do you reckon?
   > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27
On Monday 28 January 2008, Nalin Dahyabhai wrote:

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven’t really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
---------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
1.3111 libice 1.0.9-9.el7

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Author: Ralph Mor, X Consortium

1.3112 sqlite 3.28.0

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1.3113 mitchellh-copystructure 1.0.0

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1.3114 cups 1.4.2 78.el6_9
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<!-- SECTION: Getting Started -->

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1.3118 ding-lib 0.1.1-27.el7

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Eclipse
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jasp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.3127 node-archy 0.0.2-1

1.3128 go-md2man 2.0.0-20190314233015-f79a8a8ca69d
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1.3129 jettison 1.1

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1.3130 python-pygments 1.4-9.el7

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(1p1
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   (cpygments.token
      __TokenType
   p3
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p4
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Open Source Used In Tetration 3.5.1  33543
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S'Anonymous'

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ag212
ag138
ag233
ag353
ag346
atRp362
sg235
g236
sbsbV
tp363
atg24
V# New ports collection makefile for:  python25
p364
tp365
atg6
V
tp366
atg24
V# Date created:  3 July 2003
p367
tp368
atg6
V
tp369
atg24
V# Whom:  Hye-Shik Chang <perky@FreeBSD.org>

p370
Open Source Used In Tetration 3.5.1  33574

VPYTHON_MASTER_SITES
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VDISTFILES
p426
tp427
a(g353
V=
tp428
a(g6
V
tp429
a(g138
V${}
p430
Open Source Used In Tetration 3.5.1 33575

```
V PYTHON_DISTFILE

V MAINTAINER

V Python@FreeBSD.org
```

```
V Interpreted
```
Open Source Used In Tetration 3.5.1 33578


tp493
a(g100
VGNU_CONFIGURE
p494
tp495
a(g353
V=
tp496
a(g6
V
tp497
a(g6
Vyes
p498
tp499
a(g6
V\ut000a
tp500
a(g100
VCONFIGURE_TARGET
p501
tp502
a(g353
V=
tp503
a(g6
V
tp504
a(g6
V--build
p505
tp506
a(g353
V=
tp507
a(g138
V$

p508
tp509
a(g100
VMACHINE_ARCH
p510
tp511
a(g138
V}

p512
a(g6
V-portbld-freebsd
VOSREL

VCONFIGURE_SCRIPT

VCONFIGURE_ENV
VOPT
p534
 tp535
 a(g353
 V= tp536
 a(g255
 V"${CFLAGS}" p537
 tp538
 a(g6
 V tp539
 a(g100
 VSVNVERSION p540
 tp541
 a(g353
 V= tp542
 a(g255
 V"echo freebsd" p543
 tp544
 a(g6
 V\u000a tp545
 a(g100
 VMAKE_ENV p546
 tp547
 a(g353
 V= tp548
 a(g6
 V tp549
 a(g100
 VVSPATH p550
 tp551
 a(g353
 V= tp552
 a(g255
 V"${PYTHON_WRKSRC}" p553
 tp554
p595
tp596
a(g6
V\u000a
tp597
a(g100
VPYTHON_NO_DEPENDS
p598
tp599
a(g353
V=
tp600
a(g6
V
tp601
a(g6
Vyes
p602
tp603
a(g6
\u000a\u000a
p604
tp605
a(g100
VSHARED_WRKSRC
p606
tp607
a(g353
V=
tp608
a(g6
V
tp609
a(g138
VS{
p610
tp611
a(g100
VPYTHON_WRKSRC
p612
tp613
a(g138
V}
 tp614
a(g6
V/portbld.shared
p615
tp616
a(g6
V\uo000a
tp617
a(g100
VPLIST
p618
tp619
a(g353
V=
tp620
a(g6
V
p621
tp622
a(g138
V\\}\n
\ p623
tp624
a(g100
VWRKDIR
p625
tp626
a(g138
V}

\ p627
a(g6
V/PLIST
p628
tp629
a(g6
V\uo000a
tp630
a(g6
VPLIST_TEMPLATE?

\ p631
\ p632
a(g353
V=
tp633
a(g138
V\\}\n
\ p634
tp635
a(g100
VPKGDIR
p636
tp637
a(g138
a(g6
V
a(g138
V${}$
p680
tp681
a(g100
VPREFIX
p682
tp683
a(g138
V}

V/share/examples/
p685
tp686
a(g138
V${}$
p687
tp688
a(g100
VPYTHON_VERSION
p689
tp690
a(g138
V}

\w000a
 tp692
 a(g100
 VTOOLS_DIR
p693
tp694
a(g353
V=
 tp695
 a(g6
 V
 tp696
a(g138
V${}$
p697
tp698
a(g100
VPREFIX
Open Source Used In Tetration 3.5.1  33588

p699
p700
p701
p702
p703
p704
p705
p706
p707
p708
p709
p710
p711
p712
p713
p714
p715
p716
p717
p718
p719
p720
Open Source Used In Tetration 3.5.1 33589

- Vpython
- Vpython-shared
- Vsmtpd.py
- Vpython-config
- Vpython-shared-config
- VBINLINKS_SUB
V=
 tp742
 a(g6
 V
 tp743
 a(g6
 V-e
 p744
 tp745
 a(g6
 V
 tp746
 a(g281
 V's.smtpd.smtpd${PYTHON_VER},'
 p747
 tp748
 a(g6
 V
 tp749
 a(g262
 V\u000c\u000a
 p750
 tp751
 a(g6
 V
 p752
 tp753
 a(g6
 V-e
 p754
 tp755
 a(g6
 V
 tp756
 a(g281
 V's,(idle|pydoc|python-shared|python),\u000c1${PYTHON_VER},'
 p757
 tp758
 a(g6
 V\u000c\u000a
 p759
 tp760
 a(g100
 VOPTIONS
 p761
 tp762
 a(g353
 V=

Open Source Used In Tetration 3.5.1 33590
V"Enable thread support"

V"Use a larger thread stack"
V
a(g255
V"Use python's internal malloc"
p807
tp808
a(g6
V
tp809
a(g6
Von
p810
tp811
a(g6
V
tp812
a(g262
V\u005c\u000a
p813
tp814
a(g6
V
p815
tp816
a(g6
VIPV6
p817
tp818
a(g6
V
tp819
a(g255
V"Enable IPv6 support"
p820
tp821
a(g6
V
tp822
a(g6
Von
p823
tp824
a(g6
V
tp825
a(g262
V\u005c\u000a
p826
V"Enable floating point exception handling"

#include <bsd.port.pre.mk>

if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

VMLINKS

V
Open Source Used In Tetration 3.5.1 33595
V@comment "

V# workaround for a bug in base curses.h

V
V
atg6
VCFLAGS+

p891
tp892
atg353
V=

V

V-D___wchar_t

p895
tp896
atg353
V=

V

Vwchar_t

p898
tp899
atg6
V\u000a\u000a
p900
tp901
atg27
V.if !defined(WITHOUT_THREADS)\u000a
p902
tp903
atg6
V

V

VCONFIGURE_ARGS+

p905
tp906
atg353
V=

atg6
V

V---with-threads
p909
tp910
at(g6
V\u0000a
tp911
at(g6
VCFLAGS+
p912
tp913
at(g353
V=
tp914
at(g6
V
p915
tp916
at(g138
VS{
p917
tp918
at(g100
VPTHREAD_CFLAGS
p919
tp920
at(g138
V}
tp921
at(g6
V\u0000a
tp922
at(g27
V,if defined(WITHOUT_HUGE_STACK_SIZE)\u0000a
p923
tp924
at(g6
V
tp925
at(g6
VCFLAGS+
p926
tp927
at(g353
V=
tp928
at(g6
V
p929
tp930
at(g6
V-DTHREAD_STACK_SIZE

Open Source Used In Tetration 3.5.1  33598
p931
tp932
a(g353
V=
tp933
a(g6
V0x20000
p934
tp935
a(g6
V\u000a000a
 tp936
a(g27
V.else\u000a000a
 p937
tp938
a(g6
 V
tp939
a(g6
VCFLAGS+
p940
tp941
a(g353
V=
tp942
a(g6
 V
p943
tp944
a(g6
V\u000a-DTHREAD_STACK_SIZE
p945
tp946
a(g353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a000a
 tp950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a000a
 p951
tp952
Open Source Used In Tetration 3.5.1  33601
V\u000a\n
\n\n\n\

V.endif

V.if defined(WITHOUT_PYMALLOC)\n
V

V--enable-unicode

V=\n
V=\n
V=\n
V=\n
V=\n
V=\n
V=\n
V=\n
V=\n
V=\n
V.endif\n
V.if defined(WITHOUT_PYMALLOC)\n
V
VCONFIGURE_ARGS+
p1014
tp1015
atg353
V=
tp1016
atg6
V
p1017
tp1018
atg6
V---without-pymalloc
p1019
tp1020
atg6
V\u000a
p1021
atg27
V.endif\u000a
p1022
tp1023
atg6
V\u000a
p1024
atg27
V.if ${ARCH} == i386\u000a
p1025
tp1026
atg6
V
p1027
atg6
VPLIST_SUB+
p1028
tp1029
atg353
V=
tp1030
atg6
V
p1031
atg100
VX86_ONLY
p1032
tp1033
atg353
V=
tp1034
a(g255
V"
)p1035
tp1036
a(g6
V\u0000a
)p1037
a(g27
V.else\u0000a
)p1038
tp1039
a(g6
V
tp1040
a(g6
VPLIST_SUB+
)p1041
tp1042
a(g353
V=
tp1043
a(g6
V
tp1044
a(g100
VX86_ONLY
)p1045
tp1046
a(g353
V=
tp1047
a(g255
V"@comment "
p1048
tp1049
a(g6
V\u0000a
)p1050
a(g27
V.endif\u0000a
)p1051
tp1052
a(g6
V
tp1053
a(g27
V.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\u0000a
)p1054
Open Source Used In Tetration 3.5.1 33605

```plaintext
tp1055
ag6
V
tp1056
ag6
V
P L I S T _ S U B +

V32BIT_ONLY

V"@comment "

V else

V

V

V

V

V

V

V
```
V32BIT_ONLY
p1076
tp1077
at(g353
V=
tp1078
at(g255
V"

tp1079
tp1080
at(g6
V\u000a
tp1081
at(g27
V.endi\u000a

tp1082
tp1083
at(g6
V

tp1084
at(g27
V.if ${ARCH} == sparc64\u000a

tp1085
tp1086
at(g6
V

tp1087
at(g6
VCFLAGS+

tp1088
tp1089
at(g353
V=

tp1090
at(g6
V

tp1091
tp1092
at(g6
V-DPYTHON_DEFAULT_RECURSION_LIMIT

tp1093
tp1094
at(g353
V=

tp1095
at(g6
V900

tp1096
V\u000a
V
V
V
V
V
V
V
V
VPLIST_SUB+

VNO_NIS

V""""
tp1137
a(g6
V--enable-ipv6
p1138
tp1139
a(g6
V\u000a
tp1140
a(g27
V.else\u000a
p1141
tp1142
a(g6
V
p1143
a(g6
VCONFIGURE_ARGS+
p1144
tp1145
a(g353
V=
p1146
a(g6
V
p1147
a(g6
V--disable-ipv6
p1148
tp1149
a(g6
V\u000a
p1150
a(g27
V.endif\u000a
p1151
p1152
a(g6
V\u000a
p1153
a(g27
V.if defined(WITH_FPECTL)\u000a
p1154
tp1155
a(g6
V
p1156
a(g6
VCONFIGURE_ARGS+
V= with-fpectl

if ${OSVERSION} >= 700000

VPLATFORMS
if ${OSVERSION} >= 600000

V

tpl98

a[g6

Vplat-freebsd6

tpl99

a[g6

V\u000a

tpl100

a[g27

V.else

V

tpl103

a[g6

V

tpl104

a[g100

VPLATFORMS

tpl107

a[g353

V=

tpl108

a[g6

Vplat-freebsd4

tpl109

a[g6

V

tpl110

a[g6

Vplat-freebsd5

tpl111

a[g6

V

tpl112

a[g6

Vplat-freebsd7

tpl113

a[g6

V\u000a

tpl114

a[g27

V.else\u000a

pl115

tpl116
at(g6
V
tp1199
at(g100
VPLATFORMS
p1200
tp1201
at(g353
V=
tp1202
at(g6
Vplat-freebsd4
p1203
tp1204
at(g6
V
tp1205
at(g6
Vplat-freebsd6
p1206
tp1207
at(g6
V
tp1208
at(g6
Vplat-freebsd7
p1209
tp1210
at(g6
V\u000a
p1211
at(g27
V.endif\u000a
p1212
tp1213
at(g6
V\u000a
p1214
at(g6
Vpre-patch:
p1215
tp1216
at(g6
V\u000a
p1217
tp1218
at(g138
V${
Open Source Used In Tetration 3.5.1  33615
Open Source Used In Tetration 3.5.1 33618

V$\
|p1326
|tp1327
|ag100
VPATCH_WRKSRC
|p1328
|tp1329
|ag138
V
|tp1330
|ag6
V/Lib/smtpd.py
|p1331
|tp1332
|ag6
V
|tp1333
|ag6
V>
|tp1334
|ag6
V
|tp1335
|ag138
V$\
|p1336
|tp1337
|ag100
VWRKDIR
|p1338
|tp1339
|ag138
V
|tp1340
|ag6
V/smtpd2.5.py
|p1341
|tp1342
|ag6
V\ua000a
|p1343
|tp1344
|ag138
V$\
|p1345
|tp1346
|ag100
VREINPLACE_CMD
Open Source Used In Tetration 3.5.1 33620

VLib/pydoc.py

VREINPLACE_CMD

V's|^

Open Source Used In Tetratlon 3.5.1 33622
V}
tp1436
a(g6
V
tp1437
a(g6
V-e
p1438
tp1439
a(g6
V
tp1440
a(g262
V/u005c/u000a
p1441
tp1442
a(g6
V
p1443
tp1444
a(g281
V's|*
\u000a
p1445
tp1446
a(g6
V
p1447
tp1448
a(g6
V
p1450
tp1451
a(g138
V$
\u000a
p1452
tp1453
a(g100
VPATCH_WRKSRC
\u000a
p1454
tp1455
a(g138
V}
\u000a
p1456
a(g6
V/Makefile.pre.in
p1479
ctp1480
ag138
V}
ctp1481
ag6
V/Misc/python-config.in
p1482
ctp1483
ag6
V
ctp1484
ag6
Vs
ctp1485
ag6
V
ctp1486
ag138
V$\{$
p1487
ctp1488
ag100
VWRKDIR
p1489
ctp1490
ag138
V}
ctp1491
ag6
V/
ctp1492
ag138
V$\{$
p1493
ctp1494
ag100
VPYTHON_VERSION
p1495
ctp1496
ag138
V}
ctp1497
ag6
V-config
p1498
ctp1499
ag6
V]
tp1522
a|g6
V/Misc/python-config.in
p1523
{tp1524
a|g6
V
tp1525
a|g6
V$
{tp1526
a|g6
V
tp1527
a|g138
V$
{tp1528
p1529
{tp1530
a|g138
V
tp1531
a|g138
V
{tp1532
a|g6
V
tp1533
a|g138
V$
{tp1534
p1535
a|g100
VWRKDIR
{tp1536
a|g212
V:
{tp1537
a|g100
V$
{tp1538
p1539
a|g212
V/thon/thon-shared/
{tp1540
p1541
a|g138
V}
tp1542
ag6
V-config
tp1543
tp1544
ag6
V\u000a\u000a
p1545
tp1546
ag27
V if defined(WITH_FPECTL) && ${ARCH} == i386\u000a
p1547
tp1548
ag6
V
tp1549
ag138
V${}
p1550
tp1551
ag100
VMKDIR
p1552
tp1553
ag138
V}
tp1554
ag6
V
tp1555
ag138
V${}
p1556
tp1557
ag100
VWRKSRC
p1558
tp1559
ag138
V}
tp1560
ag6
V/Modules
p1561
tp1562
ag6
V\u000a
Open Source Used In Tetration 3.5.1  33629
a(g27
V.endif\u000a<=5
Npu000a
p1585
 tp1586
 a\(\text{g}6\)
 V\u000a
 tp1587
 a\(\text{g}6\)
 Vpost-configure:
p1588
 tp1589
 a\(\text{g}6\)
 V\u000a
 p1590
 tp1591
 a\(\text{g}138\)
 V$\}p1592
 tp1593
 a\(\text{g}100\)
 VTAR
 p1594
 tp1595
 a\(\text{g}138\)
 V}
tp1596
 a\(\text{g}6\)
 V
 tp1597
 a\(\text{g}6\)
 V-C
 p1598
 tp1599
 a\(\text{g}6\)
 V
 tp1600
 a\(\text{g}138\)
 V$\}p1601
 tp1602
 a\(\text{g}100\)
 VWRKSRCP1603
 tp1604
 a\(\text{g}138\)
 V}
tp1605
 a\(\text{g}6\)
V
a(g6
V-cf
p1607
tp1608
a(g6
V
tp1609
a(g6
V-
tp1610
a(g6
V
tp1611
a(g6
V.
tp1612
a(g6
V
tp1613
a(g6
V|
tp1614
a(g6
V
tp1615
a(g138
V$\}\n)p1616
tp1617
a(g100
VTAR
p1618
tp1619
a(g138
V}
tp1620
a(g6
V
tp1621
a(g6
V-C
p1622
tp1623
a(g6
V
ntp1624
Open Source Used In Tetration 3.5.1 33633
Open Source Used In Tetration 3.5.1

33634
Open Source Used In Tetration 3.5.1 33636
VSHARED_WRKSRCP

pre-build:

Open Source Used In Tetration 3.5.1  33637
Vuu005c\u000a
p1796
tp1797
a\(g262\)
V
p1799
tp1800
a\(g100\)
VLN
p1801
tp1802
a\(g138\)
V}
 tp1803
a\(g6\)
V
p1805
tp1806
a\(g6\)
V
p1808
tp1809
a\(g138\)
V$
 tp1810
a\(g138\)
V$
 tp1811
a\(g100\)
VPYTHON_VERSION
p1812
tp1813
a\(g138\)
V}
 tp1814
a\(g6\)
V.so
p1815
tp1816
python

VPYTHON_VERSION

for platform in ${PLATFORMS}
for file in \texttt{IN.py} \texttt{regen\textbackslash u000a}\texttt{p1878}
Open Source Used In Tetration 3.5.1 33644
a(g138
V}

V

V

V

V$\{
p

p

V

V

V}

V

V

V

V

V

V

V

V

V$\{
p

p

V

V

V

V

V

V

V

V

V

V
V}
 tp1962
 a\(g6
 V\u000a\u000a
 tp1963
 tp1964
 a\(g24
 V@# if openssl 0.9.8 is detected, _sha\{256,512\} module won't be installed\u000a
 tp1965
 tp1966
 a\(g6
 V
 tp1967
 a\(g353
 V(  
 tp1968
 a\(g353
 V[  
 tp1969
 a\(g6
 V
 tp1970
 a\(g6
 V-f  
 tp1971
 tp1972
 a\(g6
 V
 tp1973
 a\(g138
 V\${  
 tp1974
 tp1975
 a\(g100
 VWRK SRC  
 tp1976
 tp1977
 a\(g138
 V]  
 tp1978
 a\(g6
 V/.without_own_sha  
 tp1979
 tp1980
 a\(g6
 V
 tp1981
 a\(g353
Open Source Used In Tetration 3.5.1  33649

V]
\u005c\u000a
V\u005c\u000a
V&&
p1984
tp1985
af(g6
V
tp1986
af(g262
\u005c\u000a
p1987
tp1988
af(g6
V
tp1989
tp1990
af(g138
\u005c\u000a
p1991
tp1992
af(g100
VGREP
p1993
tp1994
af(g138
V]
\u005c\u000a
p1995
af(g6
V
tp1996
af(g6
V-v
\u005c\u000a
p1997
tp1998
af(g6
V
tp1999
af(g281
V'lib-dynload/_sha'
\u005c\u000a
p2000
tp2001
af(g6
V
tp2002
a(g138
VS{
p2003
tp2004
a(g100
VPLIST
p2005
tp2006
a(g138
V}
tp2007
a(g6
V
tp2008
a(g6
V>
tp2009
a(g6
V
tp2010
a(g138
VS{
p2011
tp2012
a(g100
VPLIST
p2013
tp2014
a(g138
V}
tp2015
a(g6
V.tmp
p2016
tp2017
a(g6
V
tp2018
a(g353
V&&
p2019
tp2020
a(g6
V
tp2021
a(g262
V\u005c\u000a
p2022
p2085
tp2086
atg100
VPREFIX
p2087
tp2088
atg138
V}
tp2089
atg6
V/bin
p2090
tp2091
atg6
V/u000a
p2092
tp2093
atg138
V${}
p2094
tp2095
atg100
VINSTALL_SCRIPT
p2096
tp2097
atg138
V}
tp2098
atg6
V
tp2099
atg138
V${}
p2100
tp2101
atg100
VWRKDIR
p2102
tp2103
atg138
V}
tp2104
atg6
V/
tp2105
atg138
V${}
p2106
Open Source Used In Tetration 3.5.1 33655

```bash
VPYTHON_VERSION
$p2108
$tp2109
$atg212
$V:
$tp2110
$atg100
$VS
$tp2111
$atg212
$V/thon/thon-shared/
$tp2112
$tp2113
$atg138
$V$
$tp2114
$atg6
$V-config
$tp2115
$tp2116
$atg6
$V
$tp2117
$atg138
$VS$
$tp2118
$tp2119
$atg100
$VPREFIX
$tp2120
$tp2121
$atg138
$V$
$tp2122
$atg6
$V/bin
$tp2123
$tp2124
$atg6
$V\u000a\u000a
$tp2125
$tp2126
$atg24
$V@@# shared version of executable and library\u000a
$tp2127
$tp2128
```
a(g6
V
p2129
a(g138
V${}$
p2130
p2131
a(g100
VINSTALL_PROGRAM
p2132
p2133
a(g138
V$
)$$p2134
a(g6
V
p2135
a(g138
V${}$
p2136
p2137
a(g100
VSHARED_WRKSRCP2138
p2139
a(g138
V$
)$$p2140
a(g6
V/lib
p2141
p2142
a(g138
V${}$
p2143
p2144
a(g100
VPYTHON_VERSION
p2145
p2146
a(g138
V$
)$$p2147
a(g6
V.so.1
p2148
p2149
a(g6
a(g6
V
\texttt{tp2150}
\texttt{a\texttt{g262}}
\texttt{V/ut005c\texttt{ut000a}}
\texttt{p2151}
\texttt{tp2152}
\texttt{a\texttt{g6}}
\texttt{V}
\texttt{p2153}
\texttt{tp2154}
\texttt{a\texttt{g138}}
\texttt{V$\{$}
\texttt{p2155}
\texttt{tp2156}
\texttt{a\texttt{g100}}
\texttt{V\texttt{PREFIX}}
\texttt{p2157}
\texttt{tp2158}
\texttt{a\texttt{g138}}
\texttt{V$\}}$
\texttt{p2159}
\texttt{a\texttt{g6}}
\texttt{V/lib}
\texttt{p2160}
\texttt{tp2161}
\texttt{a\texttt{g6}}
\texttt{V/ut000a}
\texttt{p2162}
\texttt{tp2163}
\texttt{a\texttt{g84}}
\texttt{Vcd}
\texttt{p2164}
\texttt{tp2165}
\texttt{a\texttt{g6}}
\texttt{V}
\texttt{tp2166}
\texttt{a\texttt{g138}}
\texttt{V$\{$}
\texttt{p2167}
\texttt{tp2168}
\texttt{a\texttt{g100}}
\texttt{V\texttt{PREFIX}}
\texttt{p2169}
\texttt{tp2170}
\texttt{a\texttt{g138}}
\texttt{V$\}}$
\texttt{p2171}
\texttt{a\texttt{g6}}
tp2237
a(g6
V/config
p2238
tp2239
a(g6
V\u000a
p2240
tp2241
a(g138
V$

p2242
tp2243
a(g100
VINSTALL_PROGRAM
p2244
tp2245
a(g138
V}

tp2246
a(g6
V

tp2247
a(g262
V\u000a
p2248
tp2249
a(g6
V
p2250
tp2251
a(g138
V$

p2252
tp2253
a(g100
VSHARED_WRK SRC
p2254
tp2255
a(g138
V}

p2256
a(g6
V/

p2257
a(g138
V$

p2258
Open Source Used In Tetration 3.5.1 33662

```text
V/thon/thon-shared/
$V/bin$
```
Open Source Used In Tetration 3.5.1  33663

additional files installing by ports

INSTALL_SCRIPT

VWRKDIR

V/pydoc2.5
VMKDIE
p2323
tp2324
a(g6
Vu\u0000a
p2325
tp2326
a(g6
V@
tp2327
a(g138
VS{
p2328
tp2329
a(g100
VMANPREFIX
p2330
tp2331
a(g138
V}
tp2332
a(g6
V
tp2333
a(g138
VS{
p2334
tp2335
a(g100
VINSTALL
p2336
tp2337
a(g138
V}
tp2338
a(g6
V/man/man1
p2339
tp2340
a(g6
Vu\u0000a
p2341
tp2342
a(g138
VS{
p2343
tp2344
a(g100
VINSTALL_MAN
Open Source Used In Tetration 3.5.1

- VMANPREFIX
- V/Misc/python.man
- V/man/man1/
tp2367
a(g138
V$i$
p2368
tp2369
a(g100
VPYTHON_VERSION
p2370
tp2371
a(g138
V$}
tp2372
a(g6
V.1
p2373
tp2374
a(g6
V\u0000a\u0000a
p2375
tp2376
a(g27
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}u0000a
p2377
tp2378
a(g6
V
tp2379
a(g138
Vfor
p2380
tp2381
a(g6
Vf
tp2382
a(g6
V
tp2383
a(g6
Vin
p2384
tp2385
a(g6
V
p2386
a(g138
V$}
p2387
tp2388
Open Source Used In Tetration 3.5.1  33669
Open Source Used In Tetration 3.5.1 33670
The text appears to be a piece of code, possibly written in a scripting language or a specific tool. It includes commands and variables that seem to be part of a larger script or script-like context. Without further context or specific knowledge of the script's purpose or syntax, it's difficult to provide a full interpretation or explanation of the code's functionality.
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V
pt2512
atg6
V-cf
p2513
pt2514
atg6
V
pt2515
atg6
V-
pt2516
atg6
V
pt2517
atg6
VTools
p2518
pt2519
atg6
V
pt2520
atg6
V|
pt2521
atg6
V
pt2522
atg262
V\u005c\u000a
p2523
pt2524
atg6
V
p2525
pt2526
atg353
V(
pt2527
atg84
Vcd
p2528
pt2529
atg6
V
pt2530
atg138
V$
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Subject: RE: Question about Mesa MLAA license  
From: Jorge Jimenez <iryoku@gmail.com>  
Date: 01/08/2013 12:50 PM  
To: Tom Callaway <tcallawa@redhat.com>  
CC: "jorge@iryoku.com" <jorge@iryoku.com>  

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>  
Sent: January 8, 2013 6:49 PM  
To: Jorge Jimenez <iryoku@gmail.com>  
CC: jorge@iryoku.com  
Subject: Re: Question about Mesa MLAA license  

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> > > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!
> 
> Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom
Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

--
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
   *
   * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
   * Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
   *
   * Only for use in the Mesa project, this point 2 is filled by naming the
   * technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:
- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

---

1.3132 dnsmasq 2.66 21.el7

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* /opt/ws_local/PERMITS_SQL/1072598929_1595015163.94/0/netty-codec-socks-4-1-32-final-sources-1-
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
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  version: 3

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under certain conditions; type `show c' for details.

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<signature of Ty Coon>, 1 April 1989
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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "
;
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}
1.3145 elasticsearch-rest-client-sniffer 6.7.0

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1.3146 binutils 2.23.52

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++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.
K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m68034 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compile support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.3152 gdbm 1.8.0 39.el6

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No license file was found, but licenses were detected in source scan.

License: Public Domain

Found in path(s):
No license file was found, but licenses were detected in source scan.

<aaa href="copyright.html">public domain</a>.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite.spec
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>.
No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="#sqlite3">database connection</a> or the

Found in path(s):
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is free to use SQLite from multiple threads, but it must make sure

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and so many groups use SQLite

Found in path(s):
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<p>SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.

Found in path(s):
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procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

Found in path(s):
* %%BeginResource
No license file was found, but licenses were detected in source scan.

# 2012 May 21
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# NB: Portions of this file are extracted from open-source projects
# covered by permissive licenses. Use of this file for testing is clearly
# allowed. However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#***********************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
    db eval {
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
TEXT NOT NULL DEFAULT ",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",b_blob
BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
DEFAULT 0);
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT
NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER,
t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
rd_doctransaction_id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table TEXT NOT
NULL,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')),t_sqlorder TEXT NOT NULL
DEFAULT ");
CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
rd_doctransaction_id INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT ",t_popup VARCHAR(1)
DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_symbol TEXT NOT NULL DEFAULT ",t_country TEXT NOT NULL DEFAULT ",t_type VARCHAR(1)
NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'T', 'O')),t_internet_code TEXT NOT NULL
DEFAULT ",i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source
TEXT NOT NULL DEFAULT ");
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
rd_unit_id INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>0),t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));

CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,rd_category_id INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT '',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);

CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,t_icon TEXT DEFAULT '',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')),t_data TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);

CREATE TABLE vm_category_display_tmp(id INT, t_name TEXT, t_fullname TEXT, rd_category_id INT, t_bookmarked TEXT, i_NBOPERATIONS, f_REALCURRENTAMOUNT);

CREATE TABLE vm_budget_tmp(id INT, rc_category_id INT, t_including_subcategories TEXT, f_budgeted REAL, f_budgeted_modified REAL, f_transferred REAL, i_year INT, i_month INT, t_CATEGORY, t_PERIOD, f_CURRENTAMOUNT, t_RULES);

CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN
    UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN
    UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilisé par account) Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilisé par account) Nom de la contrainte: fku_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
    DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budget) Nom de la contrainte: fki_budget_category_rc_category_id_id')   WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budget) Nom de la contrainte: fku_budget_category_rc_category_id_id')   WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budget) Nom de la contrainte: fkd_budget_category_rc_category_id_id')     WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id')   WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id')   WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id')     WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;

CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;

CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN     DELETE FROM category WHERE category.rc_category_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilisé par doctransactionitem) Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionitem) Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN     DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilisé par doctransactionmsg) Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionmsg) Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN  
SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON
doctransactionmsg FOR EACH ROW BEGIN  
DELETE FROM doctransactionmsg WHERE
doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW
BEGIN  
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilisé par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW
BEGIN  
SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilisé par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN  
DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN  
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (node est utilisé par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND
NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN  
SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilisé par node)
Nom de la contrainte: fku_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND
NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN  
DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN  
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilisé par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN  
SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilisé par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN  
DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN  
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (payee est utilisé par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN  
SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilisé par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW
BEGIN  
SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilisé par operation)
Nom de la contrainte: fkdc_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par operation)'
Nom de la contrainte: fki_operation_unit_rc_unit_id_id) WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)'
Nom de la contrainte: fku_operation_unit_rc_unit_id_id) WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilis par operation)'
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)'
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON
operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance)'
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id) WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="
AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON
operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)'
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id) WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="
AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR
each row begin update operationbalance set r_operation_id=0 where r_operation_id=old.id; end;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par recurrentoperation)'
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="
AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)'
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="
AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
recurrrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrrentoperation)
Nom de la contrainte: fku_recurrrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrrentoperation WHERE recurrrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkdc_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!="" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!="" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkdc_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (unit est utilisé par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de détruire un objet (category est utilisé par
vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id)
AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!=''
THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE
unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN
'Monnaie' WHEN 'S' THEN 'Action' WHEN 'T' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT
MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date)
FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE
IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND
s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE
FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from
v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname
WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname
FROM unitvalue;
CREATE VIEW v_unit AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM
v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON
T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND
(T2.i_number IS NULL) ORDER BY T1.i_number;

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CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;

CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,(SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=-v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;

CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||IFNULL(t_PAYEE,'')||' '||v_operation.f_CURRENTAMOUNT||' '||(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;

CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisés à supprimer cette opération car en attente de rapprochement' END) t_delete_message FROM operation;

CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;

CREATE VIEW v_category AS SELECT * FROM category;

CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'année(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS FROM recurrentoperation;

CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||(SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;
v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY || ' : ' || f_value AS t_displayname FROM v_suboperation;

CREATE VIEW v_suboperation_display_all AS SELECT *,
(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,
(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,
(SELECT s.t_CATEGORY FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,
(SELECT s.t_REFUND FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,
(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN ' ' ELSE '+' END) AS t_TYPEEXPENSE,
(CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS,
STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,
STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,
STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER,
STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER,
STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR,
(SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT,
(SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE,
(SELECT s.t_name FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_DISPLAYNAME,
(SELECT s.t_CATEGORY FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORYDISPLAYNAME,
(SELECT s.t_REFUND FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUNDDISPLAYNAME,
(SELECT s.t_DISPLAYNAME FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_DISPLAYNAMEDISPLAYNAME;

CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *,
(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prêt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,
bank.t_name  AS t_BANK,
bank.t_bank_number AS t_BANK_NUMBER,
bank.t_icon AS t_ICON,v_account.*,
(SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE) AS t_UNIT,
(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_CHECKED,
(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON,
(SELECT count(*) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE) AS i_NBOPERATIONS,
IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE, (SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE, sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.f_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';

CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé d’annuler cette transaction car utilisée par des opérations rapprochées' END) AS t_delete_message FROM refund;

CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;

CREATE VIEW v_refund_display AS SELECT *, (SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;

CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;

CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé d’annuler ce tiers car utilisée par des opérations rapprochées' END) AS t_delete_message FROM payee;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT * FROM v_payee;

CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%') AND t_status='Y') THEN 'Vous n’êtes pas autorisé d’annuler cette catégorie car utilisée par des opérations rapprochées' END) AS t_delete_message FROM category;

CREATE VIEW v_category_display_tmp AS SELECT * FROM vm_category_display_tmp WHERE t_BOOKMARKED='Y' AND t_REALCATEGORY=category.t_fullname;

CREATE VIEW v_category_display AS SELECT * FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%') AND t_status='Y' AND t_BOOKMARKED='Y';

CREATE VIEW v_category_display AS SELECT * FROM vm_category_display WHERE t_BOOKMARKED='Y' AND t_REALCATEGORY=category.t_fullname;
THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD,
(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN
vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE,
(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN
vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN 'Revenu' END) AS t_TYPEEXPENSENLS
FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode,
op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status,
op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE
rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE
r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE
s.id=interest.rd_account_id) AS t_ACCOUNT  FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS
t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE
s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM
category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN
budgetrule.i_condition=-1 THEN 'Negatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN
budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN
budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS
t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant'
WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT *  FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
' t_DISPLAYNAME FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE
s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10
THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT)
FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR
STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM
budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT
GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE
(v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND
(v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND
(v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY
v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;

CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_tmp;

CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;

CREATE VIEW v_budget_displayname AS SELECT *, t_DISPLAYNAME FROM v_budget;
t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_univalue_parameters_uuid BEFORE DELETE ON univalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'univalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id; END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id; UPDATE category SET t_name=new.t_name WHERE rd_category_id=new.id; END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
FROM v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
} 
{/.* Goto ./}
# The next test requires FTS4
if capable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
        CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
        CREATE VIRTUAL TABLE fts USING fts4;
        CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
        CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER, "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
        CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
        CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
        CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
        CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Columns</th>
</tr>
</thead>
<tbody>
<tr>
<td>mlo:GeoBoundingBox</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:bbNorthWest INTEGER NOT NULL; mlo:bbNorthWest:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoBoundingBox</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:bbSouthEast INTEGER NOT NULL; mlo:bbSouthEast:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoLocation</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:asBoundingBox INTEGER NOT NULL; mlo:asBoundingBox:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoLocation</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:asGeoPoint INTEGER NOT NULL; mlo:asGeoPoint:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoLocation</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:asPostalAddress INTEGER NOT NULL; mlo:asPostalAddress:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:address TEXT NOT NULL; mlo:address:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:altitude REAL NOT NULL; mlo:altitude:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:city TEXT NOT NULL; mlo:city:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:country TEXT NOT NULL; mlo:country:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:latitude REAL NOT NULL; mlo:latitude:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:longitude REAL NOT NULL; mlo:longitude:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:state TEXT NOT NULL; mlo:state:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:timestamp INTEGER NOT NULL; mlo:timestamp:graph INTEGER</td>
</tr>
<tr>
<td>mlo:GeoSphere</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:radius REAL NOT NULL; mlo:radius:graph INTEGER</td>
</tr>
<tr>
<td>mlo:Landmark</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:belongsToCategory INTEGER NOT NULL; mlo:belongsToCategory:graph INTEGER</td>
</tr>
<tr>
<td>mlo:Landmark Category</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:isRemovable INTEGER NOT NULL; mlo:isRemovable:graph INTEGER</td>
</tr>
<tr>
<td>mlo:Landmark</td>
<td>ID INTEGER NOT NULL PRIMARY KEY; mlo:poiLocation INTEGER NOT NULL; mlo:poiLocation:graph INTEGER</td>
</tr>
</tbody>
</table>

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CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, 
"mlo:boxEastLimit" INTEGER NOT NULL,
"mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, 
"mlo:boxNorthLimit" INTEGER NOT NULL,
"mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, 
"mlo:boxSouthWestCorner" INTEGER NOT NULL,
"mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, 
"mlo:boxVerticalLimit" INTEGER NOT NULL,
"mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, 
"mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, 
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, 
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, 
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, 
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL, 
"mto:transferState" INTEGER, "mto:transferState:graph" INTEGER, 
"mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created" INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER, 
"mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE, 
"mto:account:graph" INTEGER, "mto:starter" INTEGER, 
"mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph" INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY, 
"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination" INTEGER, 
"mto:destination:graph" INTEGER, "mto:startedTime" INTEGER, 
"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER, 
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER, 
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate" INTEGER, 
"mto:completedTime:localTime" INTEGER, "mto:state" INTEGER, 
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL, 
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
<table>
<thead>
<tr>
<th>SQL Query</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREATE TABLE &quot;mto:Transfer_mto:transferPrivacyLevel&quot; (ID INTEGER NOT NULL, &quot;mto:transferPrivacyLevel&quot; TEXT NOT NULL, &quot;mto:transferPrivacyLevel:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;mto:UploadTransfer&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;mto:UploadTransfer_mto:transferCategory&quot; (ID INTEGER NOT NULL, &quot;mto:transferCategory&quot; TEXT NOT NULL, &quot;mto:transferCategory:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;http:ScanType&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nao:Property&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nao:propertyName&quot; TEXT COLLATE NOCASE, &quot;nao:propertyName:graph&quot; INTEGER, &quot;nao:propertyValue&quot; TEXT COLLATE NOCASE, &quot;nao:propertyValue:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nao:Tag&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nao:prefLabel&quot; TEXT COLLATE NOCASE, &quot;nao:prefLabel:graph&quot; INTEGER, &quot;nao:description&quot; TEXT COLLATE NOCASE, &quot;nao:description:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nao:Tag_tracker:isDefaultTag&quot; (ID INTEGER NOT NULL, &quot;tracker:isDefaultTag&quot; INTEGER NOT NULL, &quot;tracker:isDefaultTag:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nao:Tag_tracker:tagRelatedTo&quot; (ID INTEGER NOT NULL, &quot;tracker:tagRelatedTo&quot; INTEGER NOT NULL, &quot;tracker:tagRelatedTo:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:AccessClassification&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Alarm&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:repeat&quot; INTEGER, &quot;ncal:repeat:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:AlarmAction&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Attachment&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:attachmentUri&quot; INTEGER, &quot;ncal:attachmentUri:graph&quot; INTEGER, &quot;ncal:fmttype&quot; TEXT COLLATE NOCASE, &quot;ncal:fmttype:graph&quot; INTEGER, &quot;ncal:encoding&quot; INTEGER, &quot;ncal:encoding:graph&quot; INTEGER, &quot;ncal:attachmentContent&quot; TEXT COLLATE NOCASE, &quot;ncal:attachmentContent:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:AttachmentEncoding&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:AttendeeOrOrganizer&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:dir&quot; INTEGER, &quot;ncal:dir:graph&quot; INTEGER, &quot;ncal:involvedContact&quot; INTEGER, &quot;ncal:involvedContact:graph&quot; INTEGER, &quot;ncal:member&quot; INTEGER, &quot;ncal:member:graph&quot; INTEGER, &quot;ncal:involvedBy&quot; INTEGER, &quot;ncal:involvedBy:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:AttendeeRole&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:BydayRulePart&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>SQL Statement</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:BydayRulePart_ncal:bydayModifier&quot; (ID INTEGER NOT NULL,</td>
</tr>
<tr>
<td>&quot;ncal:bydayModifier&quot; INTEGER NOT NULL,</td>
</tr>
<tr>
<td>&quot;ncal:bydayModifier:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:BydayRulePart_ncal:bydayWeekday&quot; (ID INTEGER NOT NULL,</td>
</tr>
<tr>
<td>&quot;ncal:bydayWeekday&quot; INTEGER NOT NULL,</td>
</tr>
<tr>
<td>&quot;ncal:bydayWeekday:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Calendar&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:method&quot; TEXT COLLATE NOCASE, &quot;ncal:method:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:calscale&quot; INTEGER, &quot;ncal:calscale:graph&quot; INTEGER, &quot;ncal:prodid&quot;</td>
</tr>
<tr>
<td>TEXT COLLATE NOCASE, &quot;ncal:prodid:graph&quot; INTEGER, &quot;ncal:version&quot; TEXT</td>
</tr>
<tr>
<td>COLLATE NOCASE, &quot;ncal:version:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:CalendarDataObject&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:CalendarScale&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Calendar&gt;UserType&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:Calendar_ncal:component&quot; (ID INTEGER NOT NULL,</td>
</tr>
<tr>
<td>&quot;ncal:component&quot; INTEGER NOT NULL,</td>
</tr>
<tr>
<td>&quot;ncal:component:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Event&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:eventStatus&quot; INTEGER, &quot;ncal:eventStatus:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:EventStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Freebusy&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:freebusyPeriod&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:fbtype&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:fbtype:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:FreebusyType&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Freebusy_ncal:freebusy&quot; (ID INTEGER NOT NULL,</td>
</tr>
<tr>
<td>&quot;ncal:freebusy&quot; INTEGER NOT NULL, &quot;ncal:freebusy:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Journal&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:journalStatus&quot; INTEGER, &quot;ncal:journalStatus:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:JournalStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:NcalDateTime&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:ncalTimezone&quot; INTEGER, &quot;ncal:ncalTimezone:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:date&quot; INTEGER, &quot;ncal:date:graph&quot; INTEGER, &quot;ncal:date:localDate&quot;</td>
</tr>
<tr>
<td>INTEGER, &quot;ncal:date:localTime&quot; INTEGER, &quot;ncal:dateTime&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:dateTime:graph&quot; INTEGER, &quot;ncal:dateTime:localDate&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:dateTime:localTime&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:NcalPeriod&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:periodBegin&quot; INTEGER, &quot;ncal:periodBegin:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:periodBegin:localDate&quot; INTEGER, &quot;ncal:periodBegin:localTime&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:periodDuration&quot; INTEGER, &quot;ncal:periodDuration:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:periodEnd&quot; INTEGER, &quot;ncal:periodEnd:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:periodEnd:localDate&quot; INTEGER, &quot;ncal:periodEnd:localTime&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:NcalTimeEntity&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Organizer&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:ParticipationStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:RecurrenceFrequency&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:RecurrenceIdentifier&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:range&quot; INTEGER, &quot;ncal:range:graph&quot; INTEGER),</td>
</tr>
</tbody>
</table>
"ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:until" INTEGER, "ncal:until:graph" INTEGER,
"ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
"ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
"ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
"ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL,
"ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL,
"ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL,
"ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL,
"ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL,
"ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL,
"ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL,
"ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL,
"ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph"
INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:statusDescription" TEXT COLLATE NOCASE,
"ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT
COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER,
"ncal:requestStatusData" TEXT COLLATE NOCASE,
"ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard"
INTEGER, "ncal:standard:graph" INTEGER, "ncal:daylight" INTEGER,
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE,
"ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzoffsetfrom" TEXT COLLATE NOCASE,
"ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE
NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzid" TEXT COLLATE
NOCASE, "ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime" INTEGER,
"ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER,
"ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER,
"ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime" INTEGER,
"ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT COLLATE NOCASE,
"ncal:comment:graph" INTEGER, "ncal:summaryAltRep" INTEGER,
"ncal:summaryAltRep:graph" INTEGER, "ncal:priority" INTEGER,
"ncal:priority:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE,
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE NOCASE,
"ncal:relatedToSibling:graph" INTEGER, "ncal:duration" INTEGER,
"ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT
<table>
<thead>
<tr>
<th>CREATE TABLE</th>
<th>TABLE DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;nco:ContactGroup&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:contactGroupName&quot; TEXT COLLATE NOCASE, &quot;nco:contactGroupName:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:ContactList&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>&quot;nco:ContactListDataObject&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>&quot;nco:Contact_medium&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;nco:containsContact&quot; INTEGER NOT NULL, &quot;nco:containsContact:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:ContactMedium&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:contactMediumComment&quot; TEXT COLLATE NOCASE, &quot;nco:contactMediumComment:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:Contact_ncal:anniversary&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;ncal:anniversary&quot; INTEGER NOT NULL, &quot;ncal:anniversary:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:Contact_ncal:birthday&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;ncal:birthday&quot; INTEGER NOT NULL, &quot;ncal:birthday:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:Contact_nco:belongsToGroup&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;nco:belongsToGroup&quot; INTEGER NOT NULL, &quot;nco:belongsToGroup:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:Contact_nco:note&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;nco:note&quot; TEXT NOT NULL, &quot;nco:note:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:Contact_scal:anniversary&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;scal:anniversary&quot; INTEGER NOT NULL, &quot;scal:anniversary:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:Contact_scal:birthday&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;scal:birthday&quot; INTEGER NOT NULL, &quot;scal:birthday:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:DomesticDeliveryAddress&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>&quot;nco:EmailAddress&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:emailAddress&quot; TEXT COLLATE NOCASE UNIQUE, &quot;nco:emailAddress:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:FaxNumber&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>&quot;nco:Gender&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>&quot;nco:IMAccount&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:imAccountAddress&quot; INTEGER UNIQUE, &quot;nco:imAccountAddress:graph&quot; INTEGER, &quot;nco:imAccountType&quot; TEXT COLLATE NOCASE, &quot;nco:imAccountType:graph&quot; INTEGER, &quot;nco:imDisplayName&quot; TEXT COLLATE NOCASE, &quot;nco:imDisplayName:graph&quot; INTEGER, &quot;nco:imEnabled&quot; INTEGER, &quot;nco:imEnabled:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>&quot;nco:IMAccount_nco:hasIMContact&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;nco:hasIMContact&quot; INTEGER NOT NULL, &quot;nco:hasIMContact:graph&quot; INTEGER);</td>
</tr>
</tbody>
</table>
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph"
INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph"
INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL
PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY
KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph"
INTEGER, "nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph"
INTEGER, "nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph"
INTEGER, "nco:nameHonorificSuffix" TEXT COLLATE NOCASE,
"nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix"
TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT
NULL, "nco:hasAffiliation" INTEGER NOT NULL,
"nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph"
INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress" TEXT COLLATE
NOCASE, "nco:streetAddress:graph" INTEGER, "nco:postalcode" TEXT
COLLATE NOCASE, "nco:postalcode:graph" INTEGER, "nco:locality" TEXT
COLLATE NOCASE, "nco:locality:graph" INTEGER, "nco:county" TEXT
COLLATE NOCASE, "nco:county:graph" INTEGER, "nco:district" TEXT
COLLATE NOCASE, "nco:district:graph" INTEGER, "nco:pobox" TEXT
COLLATE NOCASE, "nco:pobox:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmail" (ID INTEGER NOT NULL, "nco:hasEmail" INTEGER NOT NULL, "nco:hasEmail:graph" INTEGER);
CREATE TABLE "nco:Role_nco:webUrl" (ID INTEGER NOT NULL, "nco:webUrl" INTEGER NOT NULL, "nco:webUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL, "nfo:containsBookmark" INTEGER NOT NULL, "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL, "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:originalLocation" TEXT COLLATE NOCASE, "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER, "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:tableOfContents" TEXT COLLATE NOCASE, "nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
```
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER,
  "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER,
  "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER,
  "nfo:horizontalResolution" INTEGER, "nfo:horizontalResolution:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL,
  "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL,
  "nfo:hasRegionOfInterest" INTEGER NOT NULL,
  "nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count" INTEGER,
  "nfo:count:graph" INTEGER, "nfo:duration" INTEGER,
  "nfo:duration:graph" INTEGER, "nfo:compressionType" INTEGER,
  "nfo:compressionType:graph" INTEGER, "nfo:hasMediaStream" INTEGER,
  "nfo:hasMediaStream:graph" INTEGER, "nfo:bitDepth" INTEGER,
  "nfo:bitDepth:graph" INTEGER, "nfo:codec" TEXT COLLATE NOCASE,
  "nfo:codec:graph" INTEGER, "nfo:encodedBy" TEXT COLLATE NOCASE,
  "nfo:encodedBy:graph" INTEGER, "nfo:bitrateType" TEXT COLLATE NOCASE,
  "nfo:bitrateType:graph" INTEGER, "nfo:averageBitrate" REAL,
  "nfo:averageBitrate:graph" INTEGER, "nfo:genre" TEXT COLLATE NOCASE,
  "nfo:genre:graph" INTEGER, "nfo:equipment" INTEGER,
  "nfo:equipment:graph" INTEGER, "nfo:lastPlayedPosition" INTEGER,
  "nfo:lastPlayedPosition:graph" INTEGER, "nmm:genre" TEXT COLLATE NOCASE,
  "nmm:genre:graph" INTEGER, "nmm:skipCounter" INTEGER,
  "nmm:skipCounter:graph" INTEGER, "nmm:dnlaProfile" TEXT COLLATE NOCASE,
  "nmm:dnlaProfile:graph" INTEGER, "nmm:dnlaMime" TEXT COLLATE NOCASE,
  "nmm:dnlaMime:graph" INTEGER, "nmm:uPnPShared" INTEGER,
  "nmm:uPnPShared:graph" INTEGER, "mtp:credits" TEXT COLLATE NOCASE,
  "mtp:credits:graph" INTEGER, "mtp:creator" TEXT COLLATE NOCASE,
  "mtp:creator:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER,
```

"nfo:fileLastModified:graph" INTEGER, "nfo:fileLastModified:localDate" INTEGER, "nfo:fileLastModified:localTime" INTEGER);
```
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,  
"nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph" INTEGER, 
"nfo:programmingLanguage" TEXT COLLATE NOCASE,  
"nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,  
"nfo:definesFunction" TEXT COLLATE NOCASE,  
"nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);  
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,  
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER, 
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,  
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);  
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,  
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount" INTEGER, "nfo:frameCount:graph" INTEGER,  
"nfo:averageVideoBitrate" REAL, "nfo:averageVideoBitrate:graph" INTEGER);  
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,  
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,  
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime" INTEGER,  
"nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,  
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,  
"nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,  
"nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,  
"nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph" INTEGER,  
"nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);  
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,  
"nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,  
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);  
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,  
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,  
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph" INTEGER,  
"nid3:contentType" TEXT COLLATE NOCASE, "nid3:contentType:graph" INTEGER,  
"nid3:length" INTEGER, "nid3:length:graph" INTEGER,  
"nid3:recordingYear" INTEGER, 
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE NOCASE, "nid3:trackNumber:graph" INTEGER,  
"nid3:partOfSet" TEXT COLLATE NOCASE, "nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT COLLATE NOCASE, "nid3:comments:graph" INTEGER);  
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,  
"nid3:leadArtist" INTEGER NOT NULL, " nid3:leadArtist:graph" INTEGER);  
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,  
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,  
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,  
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,  
"nie:interpretedAs:graph" INTEGER,  
"nie:interpretedAs:graph" INTEGER,  
"nie:interpretedAs:graph" INTEGER,  
"nie:interpretedAs:graph" INTEGER,  
"nie:interpretedAs:graph" INTEGER,  
"nie:interpretedAs:graph" INTEGER,  
"nie:interpretedAs:graph" INTEGER,  

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CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph" INTEGER,
"nie:subject" TEXT COLLATE NOCASE, "nie:subject:graph" INTEGER,
"nie:mimeType" TEXT COLLATE NOCASE, "nie:mimeType:graph" INTEGER,
"nie:language" TEXT COLLATE NOCASE, "nie:language:graph" INTEGER,
"nie:plainTextContent" TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph" INTEGER,
"nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph" INTEGER,
"nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT COLLATE NOCASE, "nie:copyright:graph" INTEGER,
"nie:comment" TEXT COLLATE NOCASE, "nie:comment:graph" INTEGER,
"nie:isStoredAs" INTEGER, "nie:isStoredAs:graph" INTEGER,
"nie:version" TEXT COLLATE NOCASE, "nie:version:graph" INTEGER,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentAccessed" INTEGER, "nie:contentAccessed:graph" INTEGER,
"nie:copyright" INTEGER, "nie:copyright:graph" INTEGER,
"nie:identifier" TEXT COLLATE NOCASE, "nie:identifier:graph" INTEGER,
"nie:licenseType" TEXT COLLATE NOCASE, "nie:licenseType:graph" INTEGER,
"nie:characterSet" TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER, "nie:informationElementDate:localDate" INTEGER NOT NULL, "nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL, "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
"nmm:MPAA_Rating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
"nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
"nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
"nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
"nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE
NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE
NOCASE, "mtp:waveformat:graph" INTEGER);

CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
"mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);

CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
"nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);

CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
"nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);

CREATE TABLE "nmm:subtitle" (ID INTEGER NOT NULL,
"nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);

CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);

CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER,
"nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER,
"nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER,
"nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);

CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL,
"nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);

CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER,
"nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE
NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE
NOCASE, "nmo:responseType:graph" INTEGER);

CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL,
"nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);

CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);

CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph"
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL,
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CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL,
"nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL,
"nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL,
"nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER,
"nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER,
"nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER,
"nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER,
"nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL,
"nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL,
"nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:fromVCard" INTEGER, "nmo:fromVCard:graph" INTEGER, "nmo:encoding" TEXT COLLATE NOCASE, "nmo:encoding:graph" INTEGER,
"nmo:phoneMessageId" INTEGER, "nmo:phoneMessageId:graph" INTEGER,
"nmo:validityPeriod" INTEGER, "nmo:validityPeriod:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax" REAL, "slo:boundingLatitudeMax:graph" INTEGER,
"slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph" INTEGER, "slo:boundingLongitudeMax" REAL,
"slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL, "slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER, "slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL,
"slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
"slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
"slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
"slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
"slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER,
"tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER,
"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER, "tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON "nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON "nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON "nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON "nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON "nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON "nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON "nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact" ("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON "nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON "nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON "nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON "nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON "nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON "nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON "nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON "nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece" ("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece" ("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON "nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON "nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON "nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message" ("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message" ("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX "nmo:containsPhoneMessageFolder" ON "nmo:containsPhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" (ID, "nmo:containsPhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" (ID, "nmo:containsPhoneMessageFolder_nmo:containsPhoneMessage"));

CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessageFolder")
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard")
CREATE UNIQUE INDEX "rdfs:Property_rdfs:subPropertyOf_ID_ID" ON "rdfs:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf")
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf")
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex")
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON "rdfs:Resource_dc:contributor" (ID, "dc:contributor")
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON "rdfs:Resource_dc:date" (ID, "dc:date")
CREATE UNIQUE INDEX "rdfs:Resource_dc:source_ID_ID" ON "rdfs:Resource_dc:source" (ID, "dc:source")
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated")
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID)
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" (ID, "nao:hasTag")
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON "rdfs:Resource_nao:isRelated" (ID, "nao:isRelated")
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type")
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added")
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from")
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to")
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member")
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON "scal:Attendee_scal:sent-by" (ID, "scal:sent-by")
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON "scal:CalendarItem_scal:attendee" (ID, "scal:attendee")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON "scal:CalendarItem_scal:contact" (ID, "scal:contact")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON "scal:CalendarItem_scal:rrule" (ID, "scal:rrule")
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" ("slo:postalAddress")
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory")
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON "slo:Landmark_slo:hasContact" (ID, "slo:hasContact")
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails")

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u")),
"4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS 
"nco:PersonContact_nco:hasAffiliation4", 
"nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID"
AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = 
"nco:Role_nco:hasPhoneNumber5"."ID" DESC), (SELECT GROUP_CONCAT("2_u", ? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',') FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT "nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS 
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS 
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" = 
"nco:PersonContact_nco:hasAffiliation8"."ID" DESC), (SELECT GROUP_CONCAT("6_u", ',') FROM (SELECT "rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM 
'\n') FROM (SELECT "nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS 
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS 
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" = 
"nco:PersonContact_nco:hasAffiliation10"."ID" DESC), (SELECT GROUP_CONCAT("nco:note",',') FROM "nco:Contact_nco:note" WHERE ID = "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID
finish_test

No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>

But there also exist proprietary, licensed extensions to SQLite, written and maintained.

You are welcomed to use SQLite in closed source, proprietary, and/or

No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

No license file was found, but licenses were detected in source scan.

Rather than using fopen() to write XML or some proprietary format into

No license file was found, but licenses were detected in source scan.

# 2006 September 14
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000
Volume on Autohedge transaction
Volume Hedged
1 - 24990
2500 - 54995000
5500 - 64996000

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o’clock hour just let me know; I’ll
be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '"<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work
request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark);

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW:
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001
-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email(from,to,subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email(from,to,subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up
Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl- portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com', bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.
Thank for your help!;

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',

---

Open Source Used In Tetration 3.5.1 33969
"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "Chris.germany@enron.com" <chris.germany@enron.com>
c:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,','Reply Brief filed July 31, 2000,' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,','TRV Notification:  (West VaR - 11/07/2001)', 'The report named: West VaR
now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)"<Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

--------------------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM --------------------------
Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK
')

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

John,
I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
 INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
 'mmmarcantel@equiva.com','RE:','i will try to line up a pig for you ');
 INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
 chaun.roberts@enron.com, judy.martinez@enron.com',' 'Disaster Recovery Equipment', 'As a reminder...there are
 several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
 Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
 system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
 for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
 INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers,click here. SmartReminders.com is a permission based service. To unsubscribe click here. ');

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash

Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01
You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy.

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

------------------------ Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnrnXGate
cc: Ross Sankey/Enron@EUEnrnXGate, Eric Shaw/ENRON@EUEnrnXGate, Peter
Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email(from,to,subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email(from,to,subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------')
The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', ', 'Did you come in town this wk end.... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info',

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com,
mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', '  Enron Law Conference
San Antonio, Texas   May 2-4, 2001   Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

'));
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG   3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

'});
In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson  
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson  
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Please contact me if you have any questions regarding last weeks prices.
Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

Stacy

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson”. There are two links:

1) "Adj L_R” is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002” link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of ”3” indicates the project was cancelled, on hold, etc and is not included in the cale.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,' , 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???, ','

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ",", 'Demo by Martha Janousek

Open Source Used In Tetration 3.5.1 33985
Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:
Justin Boyd told me that you can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:','duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

);

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

COMMIT;
Everything above just builds an interesting test database. The actual tests come after this comment.

do_test fts2c-1.2 {
exesql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
exesql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
} {24 40}
do_test fts2c-1.4 {
exesql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
} {40}
do_test fts2c-1.5 {
exesql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
} {40}
do_test fts2c-1.6 {
exesql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
} {}}
do_test fts2c-1.7 {
exesql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
exesql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
} {24}
do_test fts2c-1.9 {
exesql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
} {6 17 24 25 38 40 42 73 74}
Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.

do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
  {20 2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}
}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
  {20 2 0 42 3 2 1 54 8 3 1 54 8}
}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
  {20 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}
}
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
  {20 2 0 42 3 2 1 54 8}
}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
  {20 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}
}

Document 32 contains 5 instances of the world "child". But only 3 of them are paired with "product". Make sure only those instances that match the phrase appear in the offsets(email) list.

do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
  {32 3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}
}
do_test fts2c-3.2 {
  execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH ""child product"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
    Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations
} }
do_test fts2c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the
'}}
do_test fts2c-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
Sounds good to me. I bet this next to the Warick??

place. What do you think about going Christmas

eve?? They have an 11:00 a.m. Christmas
eve??

\[ \text{SELECT snippet(email) FROM email} \]
\[ \text{WHERE email MATCH "pursuant to"} \]

\[ \text{SELECT snippet(email) FROM email} \]
\[ \text{WHERE email MATCH 'ancillary load davis'} \]

\[ \text{SELECT snippet(email) FROM email} \]
\[ \text{WHERE email MATCH 'questar enron OR com'} \]

\[ \text{SELECT snippet(email) FROM email} \]
\[ \text{WHERE email MATCH 'enron OR com questar'} \]

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

INSERT INTO x1 VALUES('blonds', 'proprietary');

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
##
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
    db eval {
CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2500 - 5499</td>
<td>5000</td>
</tr>
<tr>
<td>5500 - 64996000</td>
<td>6000</td>
</tr>
</tbody>
</table>

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,
I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

'));
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.nl-portland@enron.com',...
‘OCTOBER SCHEDULE’, ‘TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,','TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

'));
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610;

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: 
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
As discussed in the Winter Operations Meeting on Sept. 29, 2000,
E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira);

Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JM Forney
3-7160

FW: Curve Fetch File, 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.'
Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)" <Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)" <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done...........................................

Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their
calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

"John H Herbert" <jhh1@email.ms.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: 
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf
As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

---

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


');

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


');

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


');
'Re: General Brinks Position Meeting', 'Eloy,' 

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com','tim.belden@enron.com,dana.davis@enron.com,genia.fitzgerald@enron.com','Split Rock Energy LLC','We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com','jack.speer@alcoa.com,crow@millernash.com,michaelearly@earthlink.net','Oral Argument Request',' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com','rlmichaelis@hormel.com',' ','Did you come in town this wk end..... My new number at our house is :
713-668-3712...... my cell # is 281-381-7332
the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com','trycooper@hotmail.com','FW: Contact Info',' ')

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net','mcguinn.k@enron.com,mcguinn.ian@enron.com,mcguinn.stephen@enron.com','email address change','Hello all.
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn);
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference

San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.
From: Bryce Baxter                           06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

ds

');
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com
Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090 (principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

 Coats Merchant Energy/El Paso Merchant Energy
 Coats Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
 L.P., effective February 1, 2001, with the surviving entity being El Paso
 Merchant Energy, L.P. We currently have ISDA Master Agreements with both
 counterparties. Please see the attached memo regarding the existing Masters
 and let us know which agreement should be terminated.

Thanks,
Stephanie

What about this too???,

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

What about this too???

<< File: enrontccs.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie

');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???',

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',

Open Source Used In Tetration 3.5.1 34013
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country. Thanks!

Best regards

Diana Seifert
EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', ...)
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now
-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you);

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com',", 'Lite Bytz RSVP',

This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg);

   COMMIT;

} {}
execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
}
} {}
do_test fts1c-1.7 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark -susan'
    }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH '-mark susan'
    }
} {24}
do_test fts1c-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 \{3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3\}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 \{3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7\}}
do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
} {32 \{3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7\}}

# Snippet generator tests
#
do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts1c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
    Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing}}
Contract negotiations <b>...</b> ]
} do_test fts1c-4.4 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}
do_test fts1c-4.5 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts1c-4.6 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b>/ place.? What do you think about going <b>here</b>/ Christmas
eve?? They have an 11:00 a.m. <b>...</b> }}
do_test fts1c-4.7 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"
}
} {{<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b> }}
do_test fts1c-4.8 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b>/ schedules awarded.
Variances detected.
Variances detected in <b>Load</b>/ schedule.

LOG MESSAGES:

PARSING <b>...</b> }}

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}
do_test fts1c-5.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%%Copyright
No license file was found, but licenses were detected in source scan.

%%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain
application code is free to use these routines as well, if desired.

MMFauxFont.prc

Found in path(s):
* %%%BeginFile
No license file was found, but licenses were detected in source scan.

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian,
the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

---

**About SQLite**

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.
About Mozilla

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

CONTACT INFORMATION:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:
Symbian Global Press Office
Karen Hamblen
+44 207 154 1707
press@symbian.com
The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

SQLite core and like the SQLite core are in the public domain. The "TH3" test harness is a set of proprietary tests, written in C.

```
/**
 ** Return a pointer to the "temporary page" buffer held internally
 ** by the pager. This is a buffer that is big enough to hold the
 ** entire content of a database page. This buffer is used internally
 ** during rollback and will be overwritten whenever a rollback
 ** occurs. But other modules are free to use it too, as long as
 ** no rollbacks are happening.
 */
```

application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

```
/**
 ** The "printf" code that follows dates from the 1980's. It is in
 ** the public domain. The original comments are included here for
 ** completeness. They are very out-of-date but might be useful as
 ** an historical reference. Most of the "enhancements" have been backed
```
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/

No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>
<p>This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the _____ day of _____________, 2007 ("Effective Date")
by and between _____________ (the "Company"), and
Hipp, Wyrick & Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>
<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public
domain SQL database engine available at
<a href="http://www.sqlite.org/">http://www.sqlite.org/</a>
("SQLite"); and</p>
<p>WHEREAS, Company wishes to support the independent development of
the SQLite database engine to insure the continuing reliability,
vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development,
and maintenance of the SQLite code base, operation of the SQLite
website, protection and maintenance of the SQLite

---

Open Source Used In Tetration 3.5.1 34026
trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>

<p>WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and</p>

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.</p>

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>

<h3>1.2 SQLite Architect</h3>

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.</p>

<h3>1.3 Consortium Member</h3>

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.</p>

<h2>2.0 Agreement</h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.</p>

<h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite.
The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite
in mission-critical applications and therefore shall work diligently
to ensure continuing bug-free correct operation and backwards
compatibility with prior releases.

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such
that no less than 95% source code coverage is provided.
</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at
<a href="http://www.sqlite.org/">http://www.sqlite.org/</a>
in good working order and all SQLite source code shall
be made freely available at such website.
</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company,
provide Company with private notification and briefings
of any new bugs or new features in SQLite that might
effect Company's products.
</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite
Developers and shall publish from time to time a roadmap of
proposed future changes and enhancements to SQLite.
</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to
the SQLite Source Code and take responsibility for the quality
and correctness of those changes.
</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer
of SQLite, D. Richard Hipp. The role of SQLite Architect shall
not be assigned to another during the term of this Agreement except
due to the disability of Dr. Hipp and with approval of Company.
</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>
<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>
<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

<h4>2.3.9 New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

<h4>2.4.2 Copyright Disclaimer</h4>
Company acknowledges that SQLite source code and documentation published on the http://www.sqlite.org/ SQLite website.
is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees

In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company’s discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure.

Hwaci shall not, during or subsequent to the term of this Agreement, use Company’s Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

4.2.1 Disclosure Required by Law

In the event any Confidential Information is required to be disclosed
by Hwaci under the terms of a valid and effective subpoena or order
issued by a court of competent jurisdiction, or by a demand or
information request from an executive or administrative agency
or other governmental authority, Hwaci shall, unless prohibited
by the terms of a subpoena, order, or demand, promptly notify
Company of the existence, terms and circumstances surrounding
such demand or request, shall consult with Company on the
 advisability of taking legally available steps to resist
or narrow such demand or request, and, if disclosure of
such Confidential Information is required, shall exercise
its reasonable best efforts to narrow the scope of disclosure
and obtain an order or other reliable assurance that
confidential treatment will be accorded to such
Confidential Information. To the extent that Hwaci
is prohibited from notifying Company of a subpoena,
order or demand, by the terms of same, Hwaci shall exercise
its reasonable efforts to narrow the scope of disclosure.

4.3 Return of Materials.

Upon the termination of this Agreement, or upon Company's
earlier request, Hwaci shall deliver to Company all of
Company's property or Confidential Information that Hwaci
may have in Hwaci's possession or control.

5.0 Intellectual Property

5.1 No Assignment

Company acknowledges that all copyrightable material, notes,
records, drawings, designs, inventions, improvements, developments,
discoveries and trade secrets made, generated, conceived, or
reduced to practice by Hwaci related to SQLite
will remain the property of Hwaci. Nothing in this Agreement
will be construed to transfer any intellectual property right
of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall,
subject to their discretion as to the quality
and suitability of the SQLite source code and documentation
for public release, make
the SQLite source code and documentation
publicly available as downloadable files
and make a public statement ceding all intellectual
property rights, including but not limited to copyright
and patent rights, in the SQLite source code and documentation
to the public domain.
To the extent that the SQLite Developers and Hwaci
elect not to release the SQLite
source code and documentation
publicly, they shall provide copies thereof to
Company and hereby grants to Company, under all of the
SQLite Developers' and Hwaci's
rights
including but not limited to copyright and patent rights,
in and to the SQLite source code and documentation,
perpetual, irrevocable,
worldwide, non-exclusive, sublicenseable license to use,
copy, prepare derivative works of, publicly perform and
display the SQLite source code and documentation
and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the
publicly available project known by such name as of the
Effective Date. Hwaci may in its discretion file such
trademark applications or registrations as it deems
appropriate to protect or record its rights therein,
and may set such policies as it deems appropriate for
licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall
enter into agreements with the SQLite Developers sufficient
to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND
COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY
REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL
OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE,
CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO
THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT.
EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>
7.1 Term.

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

7.3 Survival.

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

8.2 Notices.

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or
(c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement
may not be amended, except by a writing signed by both parties.<p></p>

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.<p></p>

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.<p></p>

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.<p></p>

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.<p></p>

<table>
<thead>
<tr>
<th>HWACI</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>By:</td>
<td>By:</td>
</tr>
<tr>
<td>Print Name:</td>
<td>Print Name:</td>
</tr>
<tr>
<td>Title:</td>
<td>Title:</td>
</tr>
<tr>
<td> </td>
<td> </td>
</tr>
</tbody>
</table>

Open Source Used In Tetrator 3.5.1 34037
/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code. In place of
 ** a legal notice, here is a blessing:
 **
 **  May you do good and not evil.
 **  May you find forgiveness for yourself and forgive others.
 **  May you share freely, never taking more than you give.
 **
******************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  *  General-purpose declarations and utility functions.
**  *  Unique file ID logic used by VxWorks.
**  *  Various locking primitive implementations (all except proxy locking):
**     *  + for Posix Advisory Locks
**     *  + for no-op locks
**     *  + for dot-file locks
**     *  + for flock() locking
**     *  + for named semaphore locks (VxWorks only)
**     *  + for AFP filesystem locks (MacOSX only)
*/
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking methods
** plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%Version
No license file was found, but licenses were detected in source scan.

<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright
No license file was found, but licenses were detected in source scan.

<a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>/a

the public domain and original of
author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require
the public domain. </li><li>
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
   execsql {CREATE TABLE tbl1(t1 text)}
   foreach word {this program is free software} {
      execsql "INSERT INTO tbl1 VALUES('$word')"
   }
   execsql {SELECT t1 FROM tbl1 ORDER BY t1}
}</do_test>
CREATE TABLE t2(a);
INSERT INTO t2 VALUES(1);
INSERT INTO t2 VALUES(NULL);
INSERT INTO t2 VALUES(345);
INSERT INTO t2 VALUES(NULL);
INSERT INTO t2 VALUES(67890);
SELECT * FROM t2;
}
] {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
] {4 2 7 8 4}
do_test func-1.1 {
set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
] {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
] {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
ORDER BY length(t1)}
] {2 1 4 2 7 1 8 1}
do_test func-1.4 {
execsql {SELECT coalesce(length(a),-1) FROM t2}
] {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
] {fr is pr so th}
do_test func-2.1 {
execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
] {r s r o h}
do_test func-2.2 {
execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
] {ee {} ogr ftw is}
do_test func-2.3 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
] {e s m e s}
do_test func-2.4 {
execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
] {e s m e s}
do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
  execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
  execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {!"u1234"="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
  execsql {DELETE FROM tbl1}
  foreach word "contains UTF-8 characters hiሴho" {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
  execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
  execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
  execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "-F- ar nt \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}
}

};# End \ሴ!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 1.2345678901234 2]}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 12345.6789 5]}
}
}
ifcapable !floatingpoint {
if {[working_64bit_int]} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 12345678901234 2]}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 1234567890 5]}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 [345 [67890]}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
}
ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 [-2.0 1.23 2.0]}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 [2.0 1.0 -2.0]}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 [3.0 -12346.0 -5.0]}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 [3.0 -12345.68 -5.0]}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 [x3.0y x-12345.68y x-5.0y]}
do_test func-4.11 {
}
catchsql {SELECT round() FROM t1 ORDER BY a} ] {1 [wrong number of arguments to function round()]} do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),'nil') FROM t2} ] {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1} ] {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));} ] {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));} ] {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b} ] {0 [-2.0 1.23 2.0]}  # Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.5 + $i]
set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
execsql {SELECT round($x1);} ] $x2
}
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.05 + $i]
set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
execsql {SELECT round($x1,1);} ] $x2
}
do_test func-4.20 {
execsql {SELECT round(40223.499999999999);} ] {40223.0}
do_test func-4.21 {
execsql {SELECT round(40224.499999999999);} ] {40224.0}
do_test func-4.22 {
execsql {SELECT round(40225.499999999999);} ] {40225.0}
for {set i 1} {$i<10} {incr i} {
do_test func-4.23.$i {
execsql {SELECT round(40223.499999999999,$i);} ] {40223.5}
do_test func-4.24.$i {
    execsql {SELECT round(40224.4999999999,$i);}
} {40224.5}
do_test func-4.25.$i {
    execsql {SELECT round(40225.4999999999,$i);}
} {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);}
} {1234567890124.0}
do_test func-4.33 {
    execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
    execsql {SELECT round(123456789012345.5);}
} {123456789012346.0}
do_test func-4.35 {
    execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.36 {
    execsql {SELECT round(9999999999999.55);}
} {9999999999999.56}
# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
if capable !icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')} 
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')} 
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')} 
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} {db last_insert_rowid}

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
  execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
  }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable tempdb {
do_test func-8.3 {
  execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
do_test func-8.3 {
  execsql {
    CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
}
do_test func-8.4 {
  execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable compound {
do_test func-8.5 {
    execsql {
        SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                         UNION ALL SELECT -9223372036854775807)
    }
} {0}
do_test func-8.6 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                                    UNION ALL SELECT -9223372036854775807)
    }
} {integer}
do_test func-8.7 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                                    UNION ALL SELECT -9223372036854775807)
    }
} {real}
ifcapable floatingpoint {
do_test func-8.8 {
    execsql {
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                                  UNION ALL SELECT -9223372036854775807)
    }
} {1}
}
ifcapable !floatingpoint {
do_test func-8.8 {
    execsql {
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                                  UNION ALL SELECT -9223372036854775807)
    }
} {1}
}
} # How do you test the random() function in a meaningful, deterministic way?
# do_test func-9.1 {
    execsql {
        SELECT random() is not null;
    }
} {1}
do_test func-9.2 {
    execsql {
        SELECT typeof(random());
    }
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  } {1}
}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  } {blob}
}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)), length(randomblob(2000))
  } {32 1 2000}
}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().

if capable bloblit {
  do_test func-9.10 {
    execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF'))}
    } {00112233445566778899AABBCCDDEEFF}
  }
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
  do_test func-9.11-utf16le {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
    } {61006200630064003100320006700}
  do_test func-9.12-utf16le {
    execsql {SELECT hex(replace('abcdefg','','12'))}
    } {6100620063006400650066006700}
  do_test func-9.13-utf16le {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
    } {610061006100610610061006100610063006400650066006700}
  }
eelseif {$encoding=="UTF-8"} {
  do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
    } {61626364313267}
  do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','','12'))}
    } {61626364656667}
  do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
    } {616161616161626364656667}
  }
# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
catchsql {
    SELECT testfunc(NULL,NULL);
}
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234
    );
}
} {1234}
do_test func-10.3 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL
    );
}
} {{}}
ifcapable floatingpoint {
do_test func-10.4 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234
    );
}
} {1.234}
do_test func-10.5 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'char', 'ABCDEFGHIJKLMNOPQRSTUVWXYZ',
'char', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'null', NULL,
'double', 1.234
);
} {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
  execsql {
    SELECT sqlite_version(*);
  }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text() etc. are called. These tests use two special user-defined functions # (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the # text form of that argument. A destructor is associated with the return # value. Function test_destructor_count() returns the number of outstanding # destructor calls for values returned by test_destructor().
#
if {
  PRAGMA encoding="UTF-8"
} {
  do_test func-12.1-utf8 {
    execsql {
      SELECT test_destructor('hello world'), test_destructor_count();
    }
  } {'hello world' 1}
} else {
  if 
} {utf16} {
    do_test func-12.1-utf16 {
      execsql {
        SELECT test_destructor16('hello world'), test_destructor_count16();
      }
    } {'hello world' 1}
  }
}
do_test func-12.2 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.3 {
  execsql {
    SELECT test Destructor('hello') || ' world'
  } {{hello world}}
} do_test func-12.4 {
  execsql {
    SELECT test destructor_count();
  } {0}
} do_test func-12.5 {
  execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(test Destructor('hello'));
    INSERT INTO t4 VALUES(test Destructor('world'));
    SELECT min(test destructor(x)), max(test destructor(x)) FROM t4;
  } {{hello world}}
} do_test func-12.6 {
  execsql {
    SELECT test Destructor_count();
  } {0}
} do_test func-12.7 {
  execsql {
    DROP TABLE t4;
  }
} {}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
  } {0}
} do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  } {}
} do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world');
  } {0}
}
SELECT test_auxdata('hello world') FROM t4;
}
} {0 1}
do_test func-13.4 {
execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
}
} {{0 0} {1 1}}
do_test func-13.5 {
execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
}
} {{0 0} {1 0}}
do_test func-13.6 {
execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
}
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
    set DB [sqlite3_connection_pointer db]
    set sql "SELECT test_auxdata( ?, a ) FROM t4;"
    set STMT [sqlite3_prepare $DB $sql -1 TAIL]
    sqlite3_bind_text $STMT 1 hello\000 -1
    set res [list]
    while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
        lappend res [sqlite3_column_text $STMT 0]
    }
    lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
    catch {
        db function [string repeat X 254] {return "hello"}
    }
} {0}
do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    }
} {1}
do_test func-15.1 {
    catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')}
} {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
execsql {
    CREATE TABLE tbl2(a, b);
}
set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
}
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
    proc testfunc1 args {error "Error %d with %s percents %p"}
    db function testfunc1 ::testfunc1
catchsql {
        SELECT testfunc1(1,2,3);
    }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
}
} {9902}
ifcapable floatingpoint {
do_test func-18.2 {
execsql {
    INSERT INTO t5 VALUES(0.0);
SELECT sum(x) FROM t5;
}
} [9902.0]
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
}
} {{} 0.0}
do_test func-18.4 {
execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.5 {
execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.6 {
execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
execsql {

SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
   INSERT INTO t6 VALUES(1<<62);
   SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
   SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
   INSERT INTO t6 VALUES(1<<62);
   SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
   SELECT total(x) - ((1<<62)*2+1) FROM t6
}
} 0.0
}
if {[working_64bit_int]} {
do_test func-18.14 {
execsql {
   SELECT sum(-9223372036854775805);
}
} -9223372036854775805
}
ifcapable compound&&subquery {
do_test func-18.15 {
catchsql {
   SELECT sum(x) FROM
   (SELECT 9223372036854775807 AS x UNION ALL
    SELECT 10 AS x);
}
} {1 {integer overflow}}
if {[working_64bit_int]} {
do_test func-18.16 {
catchsql {
SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL
    SELECT -10 AS x);
} {0 9223372036854775797}
do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
} {0 -9223372036854775797}
}
do_test func-18.18 {
catchsql {
    SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
        SELECT -10 AS x);
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
} {0 -1}
do_test func-18.20 {
catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
} {0 1}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
} {0 -1}
do_test func-18.22 {
catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
} {0 1}
}

# Integer overflow on abs()
#
if [[working_64bit_int]] {
do_test func-18.31 {
catchsql {
SELECT abs(-9223372036854775807);
} {0 9223372036854775807}
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
} {}
do_test func-19.2 {
catchsql {
    SELECT 'abc' MATCH 'xyz';
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
catchsql {
    SELECT match(1,2,3);
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] {
set i 0
foreach {name sdx} {
    euler E460
    EULER E460
    Euler E460
    ellery E460
    gauss G200
    ghosh G200
    hilbert H416
    Heilbronn H416
    knuth K530
    kant K530
}
# Tests of the REPLACE function.
#
# do_test func-21.1 {
#   catchsql {
#     SELECT replace(1,2);
#   }
#   {1 {wrong number of arguments to function replace()}}
# do_test func-21.2 {
#   catchsql {
#     SELECT replace(1,2,3,4);
#   }
#   {1 {wrong number of arguments to function replace()}}
# do_test func-21.3 {
#   execsql {
#     SELECT typeof(replace("This is the main test string", NULL, "ALT"));
#   }
#   {null}
# do_test func-21.4 {
#   execsql {
#     SELECT typeof(replace(NULL, "main", "ALT"));
#   }
#   {null}
# do_test func-21.5 {
#   execsql {
#     SELECT typeof(replace("This is the main test string", "main", NULL));
#   }
#   {null}
# do_test func-21.6 {
#   execsql {
#     SELECT replace("This is the main test string", "main", "ALT");
#   }
#   {{This is the ALT test string}}
# do_test func-21.7 {
#   execsql {
#     replace("This is the main test string", "$name");
#   }
#   {?000}
# }
#}
# incr i
# do_test func-20.$i {
#   execsql {SELECT soundex($name)}
# } $sdx
#}

SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
SELECT replace("aaaaaaa", "a", "0123456789");
}
} {01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890}

ifcapable tclvar {
do_test func-21.9 {
# Attempt to exploit a buffer-overflow that at one time existed
# in the REPLACE function.
set ::str "[string repeat A 29998]CC[string repeat A 35537]"
set ::rep [string repeat B 65536]
execsql {
SELECT LENGTH(REPLACE($::str, 'C', $::rep));
}
} [expr 29998 + 2*65536 + 35537]
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
execsql {SELECT trim('  hi  ');
}
} {hi}
do_test func-22.5 {
execsql {SELECT ltrim('  hi  ');
}
} {{hi  }}
do_test func-22.6 {
execsql {SELECT rtrim('  hi  ');
}
} {{  hi}}
do_test func-22.7 {
execsql {SELECT trim('  hi  ','xyz');
}
} {{  hi  }}
do_test func-22.8 {
execsql {SELECT ltrim('  hi  ','xyz');
}
} {{  hi  }}
do_test func-22.9 {
}
execsql {SELECT rtrim('  hi  ','xyz');}  
} {{  hi  }}
do_test func-22.10 {
execsql {SELECT trim('xyxzy hi zzzy','xyz');}  
} {{  hi  }}
do_test func-22.11 {
execsql {SELECT ltrim('xyxzy hi zzzy','xyz');}  
} {{xyxzy hi }}
do_test func-22.12 {
execsql {SELECT rtrim('xyxzy  hi  zzzy','xyz');}  
} {{xyxzy  hi  }}
do_test func-22.13 {
execsql {SELECT trim(’ hi ’,"’");}  
} {{  hi  }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
do_test func-22.14 {
execsql {SELECT hex(trim(x'c280e1bf48f6869',x'6162e1bf6869'))}  
} {F48FBFBF6869}
do_test func-22.15 {
execsql {SELECT hex(trim(x'6869c280e1bf48f6869',x'6162e1bf6869'))}  
} {6869}
do_test func-22.16 {
execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'))};}  
} {CEB2CEB3}
do_test func-22.20 {
execsql {SELECT typeof(trim(NULL));}  
} {null}
do_test func-22.21 {
execsql {SELECT typeof(trim(NULL,'xyz'));}  
} {null}
do_test func-22.22 {
execsql {SELECT typeof(trim('hello',NULL));}  
} {null}
#
# This is to test the deprecated sqlite3_aggregate_count() API.
#
if capable deprecated {
do_test func-23.1 {
sqlite3_create_aggregate db
execsql {
SELECT legacy_count() FROM t6;
}
} {3}
}
#
The group_concat() function.
do_test func-24.1 {
    execsql {
        SELECT group_concat(t1) FROM tbl1
    }
} {{this,program,is,free,software}}
do_test func-24.2 {
    execsql {
        SELECT group_concat(t1,’’) FROM tbl1
    }
} {{(this program is free software)}}
do_test func-24.3 {
    execsql {
        SELECT group_concat(t1,’||’rowid||’’) FROM tbl1
    }
} {{(this 2 program 3 is 4 free 5 software)}}
do_test func-24.4 {
    execsql {
        SELECT group_concat(NULL,t1) FROM tbl1
    }
} {{}}
do_test func-24.5 {
    execsql {
        SELECT group_concat(t1,NULL) FROM tbl1
    }
} {{}}
do_test func-24.6 {
    execsql {
        SELECT ’BEGIN-||’group_concat(t1) FROM tbl1
    }
} {{BEGIN-this,program,is,free,software}}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
    append midargs ’/$i’
    append midres ’/’$i
    set result [md5 "this$midres program$midres is$midres free$midres software$midres"]
    set sql "SELECT md5sum(t1$midargs) FROM tbl1"
    do_test func-24.7.$i {
}
db eval $::sql
] $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
}
} {.program,.is,.free,.software}
do_test func-24.9 {
execsql {
   SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
}
} {,,,,.software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
}
} {program,.is,.free,.software}
do_test func-24.11 {
execsql {
   SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
}
} {.software}
do_test func-24.12 {
execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN ''
               WHEN 'program' THEN null ELSE t1 END) FROM tbl1
}
} {,.is,.free,.software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function

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nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}
# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
}
catchsql {
INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}

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# Verify that the length() and typeof() functions do not actually load
# the content of their argument.

do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null [ ] integer real 3 integer blob 1000000 integer text 5 integer}

do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}

do_test func-29.3 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}

if {
  [permutation] != "mmap"
} {
  do_test func-29.4 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x>100} {set x many}
    set x
  } {many}

  do_test func-29.5 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT sum(length(x)) FROM t29}
  } {1000009}

  do_test func-29.6 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
  } {1}

  do_execsql_test func-30.1 {SELECT unicode('$');} 36
  do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
  do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
}
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {¢€}]

for {set i 1} {$i<0xd800} {incr i 13} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xffffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
##
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
##
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
#$Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.

#

set porter_test_data {
    a       a
    aaron   aaron
    abaissiez  abaissiez
    abandon abandon
    abandoned abandon
    abase    abas
    abash    abash
    abate    abat
    abated   abat
    abatement abat
    abatements abat
    abates   abat
    abess    abess
    abbey    abbei
    abbeys   abbei
    abominable abomin
    abbot    abbot
    abbots   abbot
    abbreviated abbrevi
    abed     ab
    abel     abel
    aberga   aberga
    abergavenny abergavenni
    abet     abet
    abetting abet
    abhominable abhomin
    abhor    abhor
    abhorr   abhorr
    abhorred abhor
    abhorring abhor
    abhors   abhor
    abhorson abhorson
    abide    abid
    abides   abid
    abilities abil
    ability   abil
    abject   abject
    abjectly abjectli
}
abundant
abundantly
abus
abuse
abused
abuser
abuses
abusing
abutting
aby
abysm
ac
academe
academes
accent
accents
accept
acceptable
acceptance
accepted
accepts
access
accessory
accessible
accidence
accident
accidental
accidentally
accidents
acclamations
accommodate
accommodated
accommodation
accommodations
accommodo
accompanied
accompany
accompanying
accomplices
accomplish
accomplished
accomplishing
accomplishment
accompt
accord
accordant
accorded
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according
accordingly
accords
accost
account
accountant
accounted
accounts
accoutred
accoutrement
accoutrements
accrue
accumulate
accumulated
accumulation
accurs
accursed
accurst
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accusation
accusations
accusative
accusativo
accuse
accused
accuser
accusers
accuses
accuseth
accusing
accustom
accustomed
accustomed
ace
acerb
ache
acheron
aches
achiev
achieve
achieved
achievement
achievements
achiever
achieves
adamant  adam
add      add
added    ad
adder    adder
adders   adder
addeth   addeth
addict   addict
addicted addict
addiction addict
adding   ad
addition  addit
additions addit
addle    addl
address  address
addressing address
addrest  addrest
adds     add
adhere   adher
adheres  adher
adieu    adieu
adieus   adieu
adjacent  adjac
adjoin   adjoin
adjoining adjoin
adjourn  adjourn
adjudg   adjudg
adjudged adjudg
adjunct  adjunct
administrator administr
administration administr
admir    admir
admirable admir
admiral  admir
admiration admir
admire   admir
admired  admir
admirer  admir
admiring  admir
admiringly admiringli
admission admiss
admit    admit
admits   admit
admittance admitt
admitted admit
admitting admit
admonish admonish
admonishing admonish
admonishment admonish
admonishments  admonish
admonition  admonit
ado  ado
adonis  adoni
adopt  adopt
adopted  adopt
adoptedly  adoptedli
adoption  adopt
adoptious  adopti
adopts  adopt
ador  ador
adoration  ador
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adore  ador
adorer  ador
adores  ador
adorest  adorest
adoreth  adoreth
adoring  ador
adorn  adorn
adorned  adorn
adornings  adorn
adornment  adorn
adorns  adorn
adown  adown
adramadio  adramadio
adrian  adrian
adriana  adriana
adriano  adriano
adriatic  adriat
adsum  adsum
adulation  adul
adulterate  adulter
adulterates  adulter
adulterers  adulter
adulteress  adulteress
adulteries  adulteri
adulterous  adulter
adultery  adulteri
adultress  adultress
advanc  advanc
advance  advanc
advanced  advanc
advancement  advanc
advancements  advanc
advances  advanc
advancing  advanc
advantage  advantag
advantageable    advantag
advantaged        advantag
advantageous      advantag
advantages        advantag
advantaging       advantag
advent            advent
adventur          adventur
adventure         adventur
adventures        adventur
adventuring       adventur
adventurous       adventur
adventurously     adventur
adversaries       adversari
adversary         adversari
adverse           adver
adversely         adver
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advertisement     advertis
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advice            advic
advise            advis
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advises           advis
advisings         advis
advocate          advoc
advocation        advoc
aeacida           aeacida
aeacides          aeacid
aedile            aedil
aediles           aedil
aegeon            aegle
aegion            aegion
aegles            aegl
aemelia           aemelia
aemilia           aemilia
aemilius          aemiliu
aeneas            aenea
aeolus            aeolu
aer               aer
aerial            aerial
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# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
  CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
  execsql {
    DELETE FROM t1_term;
    DELETE FROM t1_content;
    INSERT INTO t1(word) VALUES($pfrom);
    SELECT term FROM t1_term;
  }
  } $pto
}

finish_test

Found in path(s):
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<a href="copyright.html">public domain</a>. No claim of ownership is made

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications should check the return code from [sqlite3_config()] to make sure that the call worked. The [sqlite3_config()] interface will return a non-zero [error code] if a discontinued or unsupported configuration option is invoked.
**
** ![SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** ![SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
*/
**<dd>There are no arguments to this option.  ^This option sets the
**[threading mode] to Multi-thread. In other words, it disables
**mutexing on [database connection] and [prepared statement] objects.
**The application is responsible for serializing access to
**[database connections] and [prepared statements]. But other mutexes
**are enabled so that SQLite will be safe to use in a multi-threaded
**environment as long as no two threads attempt to use the same
**[database connection] at the same time.  ^If SQLite is compiled with
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
**it is not possible to set the Multi-thread [threading mode] and
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the
**SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
**[[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**<dd>There are no arguments to this option.  ^This option sets the
**[threading mode] to Serialized. In other words, this option enables
**all mutexes including the recursive
**mutexes on [database connection] and [prepared statement] objects.
**In this mode (which is the default when SQLite is compiled with
**[SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
**to [database connections] and [prepared statements] so that the
**application is free to use the same [database connection] or the
**same [prepared statement] in different threads at the same time.
**^If SQLite is compiled with
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
**it is not possible to set the Serialized [threading mode] and
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the
**SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
**[[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
**<dd> ^(This option takes a single argument which is a pointer to an
**instance of the [sqlite3_mem_methods] structure. The argument specifies
**alternative low-level memory allocation routines to be used in place of
**the memory allocation routines built into SQLite.)^ ^SQLite makes
**its own private copy of the content of the [sqlite3_mem_methods] structure
**before the [sqlite3_config()] call returns.</dd>
**
**[[SQLITE_CONFIG_GET_MALLOC]] <dt>SQLITE_CONFIG_GET_MALLOC</dt>
**<dd> ^(This option takes a single argument which is a pointer to an
**instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
**structure is filled with the currently defined memory allocation routines.)^'
**This option can be used to overload the default memory allocation
**routines with a wrapper that simulations memory allocation failure or
**tracks memory usage, for example.  </dd>
**
**[[SQLITE_CONFIG_MEM_STATUS]] <dt>SQLITE_CONFIG_MEM_STATUS</dt>
**<dd> ^This option takes single argument of type int, interpreted as a
**boolean, which enables or disables the collection of memory allocation
** statistics. *(When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status()]
**   </ul>)^ Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>

** [[SQLite CONFIG SCRATCH]] <dt>SQLite CONFIG_SCRATCH</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>

** [[SQLite CONFIG PAGECACHE]] <dt>SQLite CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the SQLite_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt> ** <dd>^This option specifies a static memory buffer that SQLite will use ** for all of its dynamic memory allocation needs beyond those provided ** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE]. ** There are three arguments: An 8-byte aligned pointer to the memory, ** the number of bytes in the memory buffer, and the minimum allocation size. ** *If the first pointer (the memory pointer) is NULL, then SQLite reverts ** to using its default memory allocator (the system malloc() implementation), ** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. *If the ** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or ** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory ** allocator is engaged to handle all of SQLites memory allocation needs. ** The first pointer (the memory pointer) must be aligned to an 8-byte ** boundary or subsequent behavior of SQLite will be undefined. ** The minimum allocation size is capped at 2**12. Reasonable values ** for the minimum allocation size are 2**5 through 2**8.</dd> **

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt> ** <dd>^(This option takes a single argument which is a pointer to an ** instance of the [sqlite3_mutex_methods] structure. The argument specifies ** alternative low-level mutex routines to be used in place ** the mutex routines built into SQLite.)* SQLite makes a copy of the ** content of the [sqlite3_mutex_methods] structure before the call to ** [sqlite3_mutex_methods] returns. *If SQLite is compiled with ** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then ** the entire mutxing subsystem is omitted from the build and hence calls to ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will ** return [SQLITE_ERROR].</dd> **

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt> ** <dd>^(This option takes a single argument which is a pointer to an ** instance of the [sqlite3_mutex_methods] structure. The ** [sqlite3_mutex_methods] ** structure is filled with the currently defined mutex routines.)* ** This option can be used to overload the default mutex allocation ** routines with a wrapper used to track mutex usage for performance ** profiling or testing, for example. *If SQLite is compiled with ** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then ** the entire mutxing subsystem is omitted from the build and hence calls to ** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will ** return [SQLITE_ERROR].</dd> **

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt> ** <dd>^(This option takes two arguments that determine the default ** memory allocation for the lookaside memory allocator on each ** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(This option sets the
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** configuration on individual connections.)^  </dd>

** ** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^  ^SQLite makes a copy of the
** object and uses it for page cache memory allocations.)^  </dd>

** ** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies the current
** page cache implementation into that object.)^  </dd>

** ** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. )</dd>

** ** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the

---

Open Source Used In Tetration 3.5.1 34564
** [SQLITE_USE_URI] symbol defined.

**

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]]

** <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN

** <dd> This option takes a single integer argument which is interpreted as

** a boolean in order to enable or disable the use of covering indices for

** full table scans in the query optimizer. The default setting is determined

** by the [SQLITE.Allow_Covering_INDEX_SCAN] compile-time option, or is "on"

** if that compile-time option is omitted.

** The ability to disable the use of covering indices for full table scans

** is because some incorrectly coded legacy applications might malfunction

** malfunction when the optimization is enabled. Providing the ability to

** disable the optimization allows the older, buggy application code to work

** without change even with newer versions of SQLite.

**

** [[SQLITE_CONFIG_PCACHE]]

** [SQLITE_CONFIG_GETPCACHE]

** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE

** <dd> These options are obsolete and should not be used by new code.

** They are retained for backwards compatibility but are now no-ops.

** </dd>

**

** [[SQLITE_CONFIG_SQLLOG]]

** <dt>SQLITE_CONFIG_SQLLOG

** <dd>This option is only available if sqlite is compiled with the

** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should

** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).

** The second should be of type (void*). The callback is invoked by the library

** in three separate circumstances, identified by the value passed as the

** fourth parameter. If the fourth parameter is 0, then the database connection

** passed as the second argument has just been opened. The third argument

** points to a buffer containing the name of the main database file. If the

** fourth parameter is 1, then the SQL statement that the third parameter

** points to has just been executed. Or, if the fourth parameter is 2, then

** the connection being passed as the second parameter is being closed. The

** third parameter is passed NULL In this case. An example of using this

** configuration option can be seen in the "test_sqllog.c" source file in

** the canonical SQLite source tree.</dd>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]

** <dt>SQLITE_CONFIG_MMAP_SIZE

** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values

** that are the default mmap size limit (the default setting for

** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.

** The default setting can be overridden by each database connection using

** either the [PRAGMA mmap_size] command, or by using the

** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size

** cannot be changed at run-time. Nor may the maximum allowed mmap size

** exceed the compile-time maximum mmap size set by the

** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

```

# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
# do_test fts3ac-1.1 {
    db eval {
        
```
```
CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge volume will be the parent’s minimum volume.
For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged
1     - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,
I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 0)
'OCTOBER SCHEDULE', 'TEAM,' 

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,’), 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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- OUTAGE.dbf
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.??

- About St Pauls.url

')

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,}
As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira;

Huber Internal Memo, 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.'

George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,

JMForney

3-7160;

FW: Curve Fetch File, 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.'
-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works.  It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
  <Leila_Mankarious@mhhs.org>, "'Marymankarious (E-mail)"
  <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

INSERT INTO email(from,to,subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done........................................

Thanks

------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM -------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK

INSERT INTO email(from,to,subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their
calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: i will try to line up a pig for you '):
As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission-based service. To unsubscribe, click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', "The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash

Report Name: Houston Cellular 8-11-01

Report Date: 12/13/01

Report ID: 594D37C9ED2111D5B452

Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.

Tel: (415) 782-7802

Fax: (415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"

Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


')

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Open Source Used In Tetration 3.5.1 34577

Open Source Used In Tetration 3.5.1 34577
Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
tree) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " -
"*Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn"
<lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’’s Capacity Available for Release - Sum

Attached is Columbia Distribution’’s notice of capacity available for release
for
Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com, ', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit. ');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michelearly@earthlink.net, ', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com, ', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', ' 

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com, ', 'email address change', 'Hello all.'
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn’);

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn’);

INSERT INTO email([from],[to],subject,body) VALUES(‘shelley.corman@enron.com’, ’steve.hotte@enron.com’,
’Flat Panels’, ’Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are
stored on 44.

Shelley’);

INSERT INTO email([from],[to],subject,body) VALUES(’sara.davidson@enron.com’,
’john.schwartenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,’, ’2001 Enron Law Conference
(Distribution List 2), ‘ Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

");

INSERT INTO email([from],[to],subject,body) VALUES(’tori.kuykendall@enron.com’,
’heath.b.taylor@accenture.com’, ’Re’, ’hey - thats funny about john - he definitely remembers him - i’ll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though’);

INSERT INTO email([from],[to],subject,body) VALUES(’darron.giron@enron.com’, ’bryce.baxter@enron.com’,
’Re: Feedback for Audrey Cook’, ’Bryce,

I'll get it done today.
From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP:  Mike Carson
PWR-NG-LT-SERC:  Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP:  Mike Carson
EPMI-LT-SERC:  Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey

');

ds
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Beverly - once again thanks so much for your help on this.
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com, 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,
I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....
www.gorelieberman-2000.com/');

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com'
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '}

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY''s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,' ,'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',

<< File: enrontccs.xls >>
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com','jworman@academyofhealth.com','", 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com','", 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',

---
Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now
-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start
Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary
schedules awarded.
Variance detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->>> O:\Portland\WestDesk\California Scheduling\ISO Final
Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
  Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
  TRANS_TYPE: FINAL
  LOAD_ID: PGE4
  MKT_TYPE: 2
  TRANS_DATE: 4/22/01
  SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', "' Lite Bytz RSVP', '

This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg');

COMMIT;

}{}

###############################################################################
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
###############################################################################

do_test fts3ac-1.2 { execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark'
}
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts3ac-1.6 {

execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
} {}
do_test fts3ac-1.7 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark -susan'
    } {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH '-mark susan'
    } {24}
do_test fts3ac-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    } {6 17 24 25 38 40 42 73 74}
}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    } {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    } {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    } {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    } {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
  { [20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}]

  # Document 32 contains 5 instances of the world "child". But only
  # 3 of them are paired with "product". Make sure only those instances
  # that match the phrase appear in the offsets(email) list.
  #
  do_test fts3ac-3.1 {
    execsql {
      SELECT rowid, offsets(email) FROM email
      WHERE body MATCH 'child product' AND +rowid=32
    }
    { [32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}]
  do_test fts3ac-3.2 {
    execsql {
      SELECT rowid, offsets(email) FROM email
      WHERE body MATCH '"child product"'
    }
    { [32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}]

  # Snippet generator tests
  #
  do_test fts3ac-4.1 {
    execsql {
      SELECT snippet(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
    }
    { [[Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>]]
  do_test fts3ac-4.2 {
    execsql {
      SELECT snippet(email) FROM email
      WHERE email MATCH 'christmas candlelight'
    }
    { [[<b>...</b>here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>]]

  do_test fts3ac-4.3 {
    execsql {
      SELECT snippet(email) FROM email
      WHERE email MATCH 'deal sheet potential reuse'
    }
    { [[EOL-Accenture <b>Deal</b> <b>Sheet</b>...<b>asset base for <b>potential</b> <b>reuse</b>/ licensing Contract negotiations<b>...</b>]]
  do_test fts3ac-4.4 {

execsql {
  SELECT snippet(email,'<<<','>>>',' ') FROM email 
  WHERE email MATCH 'deal sheet potential reuse'
}
}
{{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing Contract negotiations }}
do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email 
    WHERE email MATCH 'first things'
  }
}
{{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email 
    WHERE email MATCH 'chris is here'
  }
}
{{Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together
}}
do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email 
    WHERE email MATCH '"pursuant to"'
  }
}
{{pete.<b>davis</b>@enron.com@<b>enron.com<b>...<b>/b>3; No <b>ancillary</b> schedules awarded<b>...<b>/b>detected in <b>Load</b> schedule.

LOG<b>...<b>/b>}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email,'questar enron OR com') FROM email 
    WHERE email MATCH 'questar enron OR com'
  }
}
{{matt.smith@<b>enron</b>,<b>com</b>...<b>/b>31 Keystone Receipts 15 <b>Questar</b> Pipeline

---

Open Source Used In Tetractus 3.5.1 34593
do_test fts3ac-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@enron.com...31 Keystone Receipts
15 Questar Pipeline
40 Rockies}}

# Test a problem reported on the mailing list.
#
# do_test fts3ac-6.1 {
execsql {
  CREATE VIRTUAL TABLE ft USING fts3(one, two);
  INSERT INTO ft VALUES('', 'foo');
  INSERT INTO ft VALUES('foo', 'foo');
  SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
execsql {
  DELETE FROM ft WHERE one = 'foo';
  SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
} {{1 0 0 3}}

finish_test

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<tr>
<td width="60%" valign="top">
Signature:
</td><td valign="top" align="left">
Date:
</td></tr>
<td colspan=2>
Name (printed):
</td></tr>
</table>
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1.3156 liblwp-protocol-https-perl 6.04-2ubuntu0.1

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NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

SYNOPSIS

use LWP::UserAgent;

$sua = LWP::UserAgent->new(ssl_opts => { verifyHostname => 1 });
$res = $sua->get("https://www.example.com");

DESCRIPTION

The LWP::Protocol::https module provide support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's `ssl_opts', and neither `SSL_ca_file' nor `SSL_ca_path' is set, then `SSL_ca_file' is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available SSL requests will fail. Either install this module, set up an alternative `SSL_ca_file' or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no
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SEE ALSO
IO::Socket::SSL, Crypt::SSLeay, Mozilla::CA

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* /opt/cola/permits/1135381093_1613505204.22/0/liblwp-protocol-https-perl-6-04-orig-1-tar-gz/LWP-Protocol-https-6.04/README
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---
abstract: 'Provide https support for LWP::UserAgent'
author:
  - 'Gisle Aas <gisle@activestate.com>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6501, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: LWP-Protocol-https
no_index:
directory:
  - t
  - inc
requires:
  IO::Socket::SSL: 1.54
  LWP::UserAgent: 6.04
  Mozilla::CA: 20110101
  Net::HTTPS: 6
  perl: 5.008001
resources:
  repository: http://github.com/libwww-perl/lwp-protocol-https
  x_MailingList: mailto:libwww@perl.org
  version: 6.04

Found in path(s):
* /opt/cola/permits/1135381093_1613505204.22/0/liblwp-protocol-https-perl-6-04-orig-1-tar-gz/LWP-Protocol-https-6.04/README

---
https-6.04/META.yml
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=head1 NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

=head1 SYNOPSIS

use LWP::UserAgent;

$ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });
$res = $ua->get("https://www.example.com");

=head1 DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don’t use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's C<ssl_opts>, and neither C<SSL_ca_file> nor C<SSL_ca_path> is set, then C<SSL_ca_file> is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available SSL requests will fail. Either install this module, set up an alternative C<SSL_ca_file> or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

=head1 SEE ALSO

L<IO::Socket::SSL>, L<Crypt::SSLeay>, L<Mozilla::CA>

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* /opt/cola/permits/1135381093_1613505204.22/0/liblwp-protocol-https-perl-6-04-orig-1-tar-gz/LWP-Protocol-https-6.04/lib/LWP/Protocol/https.pm
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1.3158 harfbuzz 0.9.27-1ubuntu1.1
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1.3159 gzip 1.5-10.el7

1.3160 httpcore-nio 4.3.2
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1.3161 python-ipaddress 1.0.18-2.ph2

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1.3163 perl-extutils-makemaker 6.68-3.el7

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1.3178 libyaml 0.1.4 11.el7_0

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1.3179 scala 2.11.8

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `{ case (a, b) => ... }
   val x: ((Int, Int) => Int) = (((a, b)) => a)
   ^
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
   val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
   ^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `\{ case (param1, ..., param3) => ... \}

val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

three errors found

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The initial code for shuffling an array (originally in class
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inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
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1.3186 libio-string-perl 1.08-3

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IO::String is an IO::File (and IO::Handle) compatible class that read or write data from in-core strings. It is really just a simplification of what I needed from Eryq's IO-stringy modules. As such IO::String is a replacement for IO::Scalar.

Installation as usual:

perl Makefile.PL
make
make test
make install

Documentation is embedded in the module.

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1.3187 libsm 1.2.1 2.el6
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# Bender: "Well, I don't have anything else
# planned for today. Let's get drunk!"

=head1 NAME

WWW::RobotRules - database of robots.txt-derived permissions

=head1 SYNOPSIS

use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);
This module parses */robots.txt* files as specified in "A Standard for Robot Exclusion", at <http://www.robotstxt.org/wc/norobots.html>

Webmasters can use the */robots.txt* file to forbid conforming robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object provides methods to check if access to a given URL is prohibited. The same WWW::RobotRules object can be used for one or more parsed */robots.txt* files on any number of hosts.

The following methods are provided:

=item $rules = WWW::RobotRules->new($robot_name)

This is the constructor for WWW::RobotRules objects. The first argument given to new() is the name of the robot.

=item $rules->parse($robot_txt_url, $content, $fresh_until)

The parse() method takes as arguments the URL that was used to retrieve the */robots.txt* file, and the contents of the file.

=item $rules->allowed($uri)
Returns TRUE if this robot is allowed to retrieve this URL.

=item $rules->agent([$name])

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

=back

=head1 ROBOTS.TXT

The format and semantics of the "/robots.txt" file are as follows
(this is an edited abstract of
<http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more
blank lines. Each record contains lines of the form

    <field-name>: <value>

The field name is case insensitive. Text after the '#' character on a
line is ignored during parsing. This is used for comments. The
following <field-names> can be used:

=over 3

=item User-Agent

The value of this field is the name of the robot the record is
describing access policy for. If more than one I<User-Agent> field is
present the record describes an identical access policy for more than
one robot. At least one field needs to be present per record. If the
value is "*", the record describes the default access policy for any
robot that has not not matched any of the other records.

The I<User-Agent> fields must occur before the I<Disallow> fields. If a
record contains a I<User-Agent> field after a I<Disallow> field, that
constitutes a malformed record. This parser will assume that a blank
line should have been placed before that I<User-Agent> field, and will
break the record into two. All the fields before the I<User-Agent> field
will constitute a record, and the I<User-Agent> field will be the first
field in a new record.

=item Disallow

The value of this field specifies a partial URL that is not to be
visited. This can be a full path, or a partial path; any URL that
starts with this value will not be retrieved.
Unrecognized records are ignored.

ROBOTS.TXT EXAMPLES

The following example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear

This example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

SEE ALSO
L<LWP::RobotUA>, L<WWW::RobotRules::AnyDBM_File>

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=head1 NAME

WWW::RobotRules - database of robots.txt-derived permissions

=head1 SYNOPSIS

use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{  
    my $url = "http://some.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
  }

{  
    my $url = "http://some.other.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
  }

  # Now we can check if a URL is valid for those servers
  # whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}

DESCRIPTION

This module parses /robots.txt files as specified in "A Standard for Robot Exclusion", at <http://www.robotstxt.org/wc/norobots.html>
Webmasters can use the /robots.txt file to forbid conforming robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object provides methods to check if access to a given URL is prohibited. The same WWW::RobotRules object can be used for one or more parsed /robots.txt files on any number of hosts.

The following methods are provided:

$rules = WWW::RobotRules->new($robot_name)
    This is the constructor for WWW::RobotRules objects. The first argument given to new() is the name of the robot.

$rules->parse($robot_txt_url, $content, $fresh_until)
    The parse() method takes as arguments the URL that was used to retrieve the /robots.txt file, and the contents of the file.

$rules->allowed($uri)
    Returns TRUE if this robot is allowed to retrieve this URL.

$rules->agent([$name])
    Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

ROBOTS.TXT

The format and semantics of the "/robots.txt" file are as follows (this is an edited abstract of <http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

    <field-name>: <value>

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

User-Agent
    The value of this field is the name of the robot the record is
describing access policy for. If more than one *User-Agent* field is present the record describes an identical access policy for more than one robot. At least one field needs to be present per record. If the value is ' ', the record describes the default access policy for any robot that has not not matched any of the other records.

The *User-Agent* fields must occur before the *Disallow* fields. If a record contains a *User-Agent* field after a *Disallow* field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that *User-Agent* field, and will break the record into two. All the fields before the *User-Agent* field will constitute a record, and the *User-Agent* field will be the first field in a new record.

Disallow
The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved.

Unrecognized records are ignored.

ROBOTS.TXT EXAMPLES
The following example " /robots.txt" file specifies that no robots should visit any URL starting with " /cyberworld/map/" or " /tmp/":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear

This example " /robots.txt" file specifies that no robots should visit any URL starting with " /cyberworld/map/", except the robot called "cybermapper":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.
# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

SEE ALSO
   LWP::RobotUA, WWW::RobotRules::AnyDBM_File

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   Found in path(s):

1.3189 crash 7.0.3-3ubuntu4.5

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   Version 2, June 1991

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#! /usr/bin/env python

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#
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This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Prune this file from our search list.
                    files.remove(filename)
or relpath in EXCLUDE_LIST
or relpath in NOT_FSF_LIST
or relpath in BY_HAND):
# Ignore this file.
    pass
else:
    result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                        stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('n'):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                print line
else:
    # Unrecognized file format. !?!
    print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
complex cases later...
"""

    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)
    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print  
        print \033[31mREMINDER: The following files must be updated by hand." \

for filename in BY_HAND + MULTIPLE_COPYRIGHT.Headers:
    print "  ", filename

############################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/CONTRIBUTE',
    'gdb/gnulib'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",  
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
)
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemenu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemenu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
    "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
    "sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
)
if __name__ == '__main__':
    main()

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Version 3, 29 June 2007

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@example
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program Copyright (C) year name of author

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@end example

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@appendixsubsec Preamble

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We call this license the Lesser General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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@example
one line to give the library's name and an idea of what it does.

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@end example

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the library "Frob" (a library for tweaking knobs) written by James Random Hacker.

[signature of Ty Coon], 1 April 1990
Ty Coon, President of Vice
@end example
That's all there is to it!

BEGIN{
    FS="\";  
    print "/\" ==> Do not modify this file!! \" \ 
    ".*- buffer-read-only: t -*. vi \ 
    ":set ro:\";  
    print " It is created automatically by copying.awk.";  
    print " Modify copying.awk instead. <=\"\"/;  
    print ""  
    print "\include \"defs.h\""  
    print "\include \"command.h\""  
    print "\include \"gdbcmd.h\""  
    print ""  
    print "static void show_copying_command (char *, int);"  
    print ""  
    print "static void show_warranty_command (char *, int);"  
    print ""  
    print "void _initialize_copying (void);"  
    print ""  
    print "static void";  
    print "show_copying_command (char *ignore, int from_tty)";  
    print "\";  
}  

NR == 1;/\^[ ]*15\. Disclaimer of Warranty\[ ]*$/{  
if ($0 ~ /\//)  
    {  
        printf " printf_filtered (\"\n\n\n\n";  
    }  
else if ($0 !~ /\^[ ]*15\. Disclaimer of Warranty\[ ]*$/)  
    {  
        printf " printf_filtered (\"\";  
        for (i = 1; i < NF; i++)  
            printf "\%%s\\n\n\";  
            printf "\%%s\\n\";  
            printf "\%s\\n\n\";  
            printf "\%s\\n\n\";  
            printf "\%s\\n\n\";  
            printf "\%s\\n\n\";  
    }  
}

/^\^[ ]*15\. Disclaimer of Warranty\[ ]*$/{  
print "]\";  
print "";  
print "static void";  
print "show_warranty_command (char *ignore, int from_tty)";  
print "\";  
}

/^\^[ ]*15\. Disclaimer of Warranty\[ ]*$/, /^\^[ ]*END OF TERMS AND CONDITIONS[ ]*$/{  
if (! ($0 ~ /^\^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))  
    {  
        printf " printf_filtered (\"\";  

open source used in tetration 3.5.1 34885
for (i = 1; i < NF; i++)
printf "\%s\n\", Si;
    printf "\%s\n\", $NF;
}
}
END{
  print "");
  print "\n";
  print "void"
  print "_initialize_copying (void)";
  print "\n";
  print " add_cmd ("copying\", no_set_class, show_copying_command,";
  print " ("Conditions for redistributing copies of GDB.\")\n, ";
  print " &showlist);";
  print " add_cmd ("warranty\", no_set_class, show_warranty_command,";
  print " ("Various kinds of warranty you do not have.\")\n, ";
  print " &showlist);";
  print "\n";
  print "/* For old-timers, allow "\ninfo copying\n", etc. */\n";
  print " add_info ("copying\", show_copying_command,";
  print " ("Conditions for redistributing copies of GDB.\")\n);";
  print " add_info ("warranty\", show_warranty_command,";
  print " ("Various kinds of warranty you do not have.\")\n);";
  print "}\n";
}

---

**1.3190 curl 7.38.0-4+deb8u11**

### 1.3190.1 Available under license:

License Mixing with apps, libcurl and Third Party Libraries

---

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS http://www.mozilla.org/projects/security/pki/nss/

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axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.
zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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Heimdal http://www.pdc.kth.se/heimdal/

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GNU GSS http://www.gnu.org/software/gss/

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libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/
(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.3191 node-ini 1.1.0-1

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1.3192 cron 3.0pl1-124ubuntu2

1.3192.1 Available under license:
Upstream-Name: vixie-cron
Upstream-Contact: Paul Vixie <paul@vix.com>
Source:
The original source for this package could be obtained from ftp://ftp.vix.com/pub/vixie/cron-3.0, although that link appears to have gone down.

Files: *
Copyright: 1988, 1990, 1993, 1994, Paul Vixie <paul@vix.com>
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1996-2005, Steve Greenland <stevegr@debian.org>
2005-2006, 2008-2010, Javier Fernández-Sanguino Pea <jfs@debian.org>
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Files: database.c
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1.3193 harfbuzz 0.9.40

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1.3194 jersey-json 1.1.5.1

1.3195 bean-validation-api 1.1.0.Final

1.3196 mountall 2.53ubuntu1

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
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org.apache.tomcat:tomcat-util-scan
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1.3205 libpod-readme-perl 0.11-1

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1.3208 grpc-core 1.15.1

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  jar/io/grpc/LoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-
  jar/io/grpc/ServerTransportFilter.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-
  jar/io/grpc/InternalMetadata.java
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  jar/io/grpc/internal/ConnectionClientTransport.java
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  jar/io/grpc/internal/PickSubchannelArgsImpl.java
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  jar/io/grpc/inprocess/InProcessSocketAddress.java
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  jar/io/grpc/internal/MetadataApplierImpl.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-
  jar/io/grpc/internal/InternalHandlerRegistry.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-
  jar/io/grpc/NameResolverProvider.java
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jar/io/grpc/internal/AbstractSubchannel.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ForwardingConnectionClientTransport.java
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/**
* A CallId is two byte[] arrays both of size 8 that uniquely identifies the RPC. Users are
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  jar/io/grpc/util/MutableHandlerRegistry.java
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  jar/io/grpc/ClientInterceptors.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-
  jar/io/grpc/MethodDescriptor.java
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  jar/io/grpc/internal/StreamListener.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-
  jar/io/grpc/internal/Stream.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-
  jar/io/grpc/internal/ReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/
  io/grpc/ServerCall.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-

jar/io/grpc/internal/ServerListener.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/MessageFramer.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ManagedChannelOrphanWrapper.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ForwardingManagedChannel.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/DnsNameResolver.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/DnsNameResolverProvider.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/NoopClientStream.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/Http2Ping.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/internal/TransportTracer.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/internal/WithLogId.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/internal/GzipInflatingBuffer.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/internal/ProxyDetectorImpl.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/internal/CallTracer.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/internal/AtomicBackoff.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/InternalServiceProviders.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources.jar/io/grpc/internal/Framer.java
1.3209 prometheus-client 0.9.2

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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The original files were extracted from btr.c -- an ANSI C implementation included in the source code distribution of SORTING AND SEARCHING ALGORITHMS: A COOKBOOK

by THOMAS NIEMANN Portland, Oregon
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1.3216 ion-java 1.0.2

1.3217 findbugs-annotations 1.3.9-1

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o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
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o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications
is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
version detection and is also made available as an NSE library.
Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language
of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
running Lua programs inside Nmap. Distributed with Nmap in the liblua
subdirectory. liblua can be omitted by configuring with the
--without-liblua configuration directive.
http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection
and by NSE to connect to SSL services. NSE also provides access to
OpenSSL functions such as encryption and digest calculation. OpenSSL
can be disabled by configuring with the --without-openssl
configuration directive.
http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o libsvn. The Subversion library, used by the updater program

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
and it also has its own license. A binary copy of the library is
distributed with Nmap in the subdirectory mswin32/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in
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Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter
and various libraries, built using either py2exe or py2app.
http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU
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http://www.gtk.org/
o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the
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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk


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1.3231 shadow 4.2-3+deb8u4

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### 1.3234 prometheus-client 0.2.0

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March 29, 2012

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=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

use JSON::PP;

# exported functions, they croak on error
# and expect/generate UTF-8
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$coder = JSON::PP->new->ascii->pretty->allow_nonref;

$json_text   = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

# Note that JSON version 2.0 and above will automatically use
# JSON::XS or JSON::PP, so you should be able to just:

use JSON;

=head1 VERSION

2.27200

L<JSON::XS> 2.27 (~2.30) compatible.

=head1 DESCRIPTION

This module is L<JSON::XS> compatible pure Perl module.
(Perl 5.8 or later is recommended)

JSON::XS is the fastest and most proper JSON module on CPAN.
It is written by Marc Lehmann in C, so must be compiled and
installed in the used environment.

JSON::PP is a pure-Perl module and has compatibility to JSON::XS.

=head2 FEATURES

=over

=item * correct unicode handling

This module knows how to handle Unicode (depending on Perl version).

See to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL> and
L<UNICODE HANDLING ON PERLS>.
=item * round-trip integrity

When you serialise a perl data structure using only data types supported by JSON and Perl, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There are minor exceptions to this, read the MAPPING section below to learn about those.

=item * strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature). But when some options are set, loose checking features are available.

=back

=head1 FUNCTIONAL INTERFACE

Some documents are copied and modified from L<JSON::XS/FUNCTIONAL INTERFACE>.

=head2 encode_json

$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

$json_text = JSON::PP->new->utf8->encode($perl_scalar)

=head2 decode_json

$perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON::PP->new->utf8->decode($json_text)

=head2 JSON::PP::is_bool
$is_boolean = JSON::PP::is_bool($scalar)

Returns true if the passed scalar represents either JSON::PP::true or
JSON::PP::false, two constants that act like C<1> and C<0> respectively
and are also used to represent JSON C<true> and C<false> in Perl strings.

=head2 JSON::PP::true

Returns JSON true value which is blessed object.
It C<isa> JSON::PP::Boolean object.

=head2 JSON::PP::false

Returns JSON false value which is blessed object.
It C<isa> JSON::PP::Boolean object.

=head2 JSON::PP::null

Returns C<undef>.

See L<MAPPING>, below, for more information on how JSON values are mapped to
Perl.

=head1 HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER

This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on,
is encoded in UTF-8, you should use C<decode_json> or C<JSON> module object
with C<utf8> enable. And the decoded result will contain UNICODE characters.

# from network
my $json      = JSON::PP->new->utf8;
my $json_text = CGI->new->param( 'json_data' );
my $perl_scalar = $json->decode( $json_text );

# from file content
local $/;
open( my $fh, '<', 'json.data' );
$json_text = <$fh>;
$perl_scalar = decode_json( $json_text );

If an outer data is not encoded in UTF-8, firstly you should C<decode> it.

use Encode;
local $/;
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)" , 'json.data' );
# $unicode_json_text = <$fh>;

In this case, C<$unicode_json_text> is of course UNICODE string.
So you B<cannot> use C<decode_json> nor C<JSON> module object with C<utf8> enable.
Instead of them, you use C<JSON> module object with C<utf8> disable.

$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );

Or C<decode 'utf8'> and C<decode_json>:

$perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
# this way is not efficient.

And now, you want to convert your C<$perl_scalar> into JSON data and
send it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted data to be encoded
in UTF-8, you should use C<encode_json> or C<JSON> module object with C<utf8> enable.

print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );

If C<$perl_scalar> does not contain UNICODE but C<$encoding>-encoded strings
for some reason, then its characters are regarded as B<latin1> for perl
(because it does not concern with your $encoding).
You B<cannot> use C<decode_json> nor C<JSON> module object with C<utf8> enable.
Instead of them, you use C<JSON> module object with C<utf8> disable.
Note that the resulted text is a UNICODE string but no problem to print it.

# $perl_scalar contains $encoding encoded string values
$unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;

Or C<decode $encoding> all string values and C<encode_json>:

$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.
=head1 METHODS

Basically, check to L<JSON> or L<JSON::XS>.

=head2 new

$json = JSON::PP->new

Returns a new JSON::PP object that can be used to de/encode JSON strings.

All boolean flags described below are by default I<disabled>.

The mutators for flags all return the JSON object again and thus calls can be chained:

    my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
    => {
        "a": [1, 2]
    }

=head2 ascii

$json = $json->ascii([$enable])

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. (See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>).

In Perl 5.005, there is no character having high value (more than 255). See to L<UNICODE HANDLING ON PERLS>.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

    JSON::PP->new->ascii(1)->encode([chr 0x10401])
    => ["\ud801\udc01"]

=head2 latin1

$json = $json->latin1([$enable])

$enabled = $json->get_latin1
If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

```perl
JSON::XS->new->latin1->encode ("\x{89}\x{abc}")
=> ["\x{89}\u0abc"]  # (perl syntax, U+abc escaped, U+89 not)
```

See to L<UNICODE HANDLING ON PERLS>.

=head2 utf8

$json = $json->utf8([$enable])

$enabled = $json->get_utf8

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

(In Perl 5.005, any character outside the range 0..255 does not exist. See to L<UNICODE HANDLING ON PERLS>.)

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsontext);
```

=head2 pretty

$json = $json->pretty([$enable])
This enables (or disables) all of the \texttt{indent}, \texttt{space\_before} and \texttt{space\_after} flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

\begin{verbatim}
$json->indent->space\_before->space\_after
=\texttt{head2 indent}
$json = \$json->indent([\$enable])
$enabled = \$json->get\_indent
\end{verbatim}

The default indent space length is three. You can use \texttt{indent\_length} to change the length.

\begin{verbatim}
=\texttt{head2 space\_before}
$json = \$json->space\_before([\$enable])
$enabled = \$json->get\_space\_before
\end{verbatim}

If \texttt{\$enable} is true (or missing), then the \texttt{encode} method will add an extra optional space before the \texttt{:<>} separating keys from values in JSON objects.

If \texttt{\$enable} is false, then the \texttt{encode} method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space\_before enabled, space\_after and indent disabled:

\begin{verbatim}
{"key": "value"}
=\texttt{head2 space\_after}
$json = \$json->space\_after([\$enable])
$enabled = \$json->get\_space\_after
\end{verbatim}

If \texttt{\$enable} is true (or missing), then the \texttt{encode} method will add an extra optional space after the \texttt{:<>} separating keys from values in JSON objects and extra whitespace after the \texttt{:,} separating key-value pairs and array members.

If \texttt{\$enable} is false, then the \texttt{encode} method will not add any extra space at those places.
This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{ "key": "value" }

=head2 relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If $enable is true (or missing), then $decode will accept some extensions to normal JSON syntax (see below). $encode will not be affected in any way. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then $decode will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[  
  1,  
  2, <- this comma not normally allowed  
]

{  
  "k1": "v1",  
  "k2": "v2", <- this comma not normally allowed  
}

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.
[1, # this comment not allowed in JSON
   # neither this one...]

=head2 canonical

$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

If you want your own sorting routine, you can give a code reference or a subroutine name to C<sort_by>. See to C<JSON::PP OWN METHODS>.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

JSON::PP->new->allow_nonref->encode("Hello, World!")
=> "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown([$enable])

$enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by $<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference. Instead, the value of the B<convert_blessed> option will decide whether C<null> (C<convert_blessed> disabled or no C<TO_JSON> method found) or a representation of the object (C<convert_blessed> enabled and C<TO_JSON> method found) is being encoded. Has no effect on C<decode>.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

If C<$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no C<TO_JSON> method is found, the value of C<allow_blessed> will decide what
to do.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON> was chosen because other
methods called by the Perl core (== not by the user of the object) are
usually in upper case letters and to avoid collisions with the C<to_json>
function or method.

This setting does not yet influence C<decode> in any way.

If C<{$enable}> is false, then the C<allow_blessed> setting will decide what
to do when a blessed object is found.

=head2 filter_json_object

$Json = $json->filter_json_object([$coderef])

When C<{$coderef}> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument passed to the coderef
is a reference to the newly-created hash. If the code references returns
a single scalar (which need not be a reference), this value
(i.e. a copy of that scalar to avoid aliasing) is inserted into the
deserialised data structure. If it returns an empty list
(NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised
hash will be inserted. This setting can slow down decoding considerably.

When C<{$coderef}> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

  my $js = JSON::PP->new->filter_json_object (sub { 5 });
  # returns [5]
  $js->decode ('[{}]'); # the given subroutine takes a hash reference.
  # throw an exception because allow_nonref is not enabled
  # so a lone 5 is not allowed.
  $js->decode ('{"a":1, "b":2}');

=head2 filter_json_single_key_object

$Json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>. 

---
This \texttt{C<$coderef$> is called before the one specified via \texttt{C<filter_json_object>}, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even \texttt{C<undef> but the empty list), the callback from \texttt{C<filter_json_object> will be called next, as if no single-key callback were specified.}

If \texttt{C<$coderef$> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the \texttt{C<filter_json_object> one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are \texttt{C<__class_whatever__>, or \texttt{C<$__dollars_are_rarely_used__$> or \texttt{C<}ugly_brace_placement>, or even things like \texttt{C<__class_md5sum(classname)__}, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form \texttt{C<< \{ "__widget__" => <id> \} >}} into the corresponding \texttt{C<< $WIDGET{<id>} >> object:

\begin{verbatim}
# return whatever is in $WIDGET{5}:
JSON::PP
-\texttt{new}
-\texttt{filter_json_single_key_object \{__widget__ => sub { $WIDGET{ \\
\texttt{$_[0]} } \}
-\texttt{\}}
-\texttt{decode (\{"__widget__": 5\})}
\end{verbatim}

\begin{verbatim}
# this can be used with a TO_JSON method in some “widget” class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;
  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
    $WIDGET{$self->{id}} = $self;
  }

  \{ __widget__ => $self->{id} \}
}
\end{verbatim}

=head2 shrink

Open Source Used In Tetration 3.5.1 35422
$json = $json->shrink([$enable])

$enabled = $json->get_shrink

In JSON::XS, this flag resizes strings generated by either
C<encode> or C<decode> to their minimum size possible.
It will also try to downgrade any strings to octet-form if possible.

In JSON::PP, it is noop about resizing strings but tries
C<utf8::downgrade> to the returned string by C<encode>.
See to L<utf8>.

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<{> or C<[]>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

See L<JSON::XS/SSECURITY CONSIDERATIONS> for more info on why this is useful.

When a large value (100 or more) was set and it de/encodes a deep nested object/text,
it may raise a warning 'Deep recursion on subroutine' at the perl runtime phase.

=head2 max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. C<undef>) become JSON C<null> values. References to the integers C<0> and C<1> are converted into C<true> and C<false>.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. C<true> becomes C<1> (C<JSON::true>), C<false> becomes C<0> (C<JSON::false>) and C<null> becomes C<undef>.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

JSON->new->decode_prefix ("[1] the tail")
=> ([], 3)

=head1 INCREMENTAL PARSING

Most of this section are copied and modified from L<JSON::XS/INCREMENTAL PARSING>.

In some cases, there is the need for incremental parsing of JSON texts.
This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect parenthesis mismatches. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. C<max_size>) to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<$string> is given, then this string is appended to the already existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context.
case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON->new->incr_parse ('[5][7][1,2]');

=head2 incr_text

    $lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This only works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it will fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

    $json->incr_text =~ s/\s*,\s*///;

In Perl 5.005, C<lvalue> attribute is not available.
You must write codes like the below:

    $string = $json->incr_text;
    $string =~ s/\s*,\s*///;
    $json->incr_text( $string );

=head2 incr_skip

    $json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

=head2 incr_reset

    $json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.
This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to L<JSON::XS/INCREMENTAL PARSING> for examples.

=head1 JSON::PP OWN METHODS

=head2 allow_singlequote

$json = $json->allow_singlequote([$enable])

If C<$enable> is true (or missing), then C<decode> will accept JSON strings quoted by single quotations that are invalid JSON format.

$json->allow_singlequote->decode({"foo":"bar");
$json->allow_singlequote->decode(\'foo\':"bar");
$json->allow_singlequote->decode(\'foo\':\'bar");

As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.

=head2 allow_barekey

$json = $json->allow_barekey([$enable])

If C<$enable> is true (or missing), then C<decode> will accept bare keys of JSON object that are invalid JSON format.

As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.

$json->allow_barekey->decode(['foo':"bar"]);

=head2 allow_bignum

$json = $json->allow_bignum([$enable])

If C<$enable> is true (or missing), then C<decode> will convert the big integer Perl cannot handle as integer into a L<Math::BigInt> object and convert a floating number (any) into a L<Math::BigFloat>.

On the contrary, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers with C<allow_blessed> enable.
$json->allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001

See to L<JSON::XS/MAPPING> about the normal conversion of JSON number.

=head2 loose

$json = $json->loose([$enable])

The unescaped \[\x00-\x1f\x22\x2f\x5c\] strings are invalid in JSON strings
and the module doesn’t allow to C<decode> to these (except for ‘\x2f’).
If C<$enable> is true (or missing), then C<decode> will accept these
unescaped strings.

$json->loose->decode(qq|"abc
def");

See L<JSON::XS/SSECURITY CONSIDERATIONS>.

=head2 escape_slash

$json = $json->escape_slash([$enable])

According to JSON Grammar, I<slash> (U+002F) is escaped. But default
JSON::PP (as same as JSON::XS) encodes strings without escaping slash.
If C<$enable> is true (or missing), then C<encode> will escape slashes.

=head2 indent_length

$json = $json->indent_length($length)

JSON::XS indent space length is 3 and cannot be changed.
JSON::PP set the indent space length with the given $length.
The default is 3. The acceptable range is 0 to 15.

=head2 sort_by

$json = $json->sort_by($function_name)
$json = $json->sort_by($subroutine_ref)

If $function_name or $subroutine_ref are set, its sort routine are used
in encoding JSON objects.

$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }
As the sorting routine runs in the JSON::PP scope, the given
subroutine name and the special variables C<$a>, C<$b> will begin
'JSON::PP::'.
If $integer is set, then the effect is same as C<canonical> on.
=head1 INTERNAL
For developers.
=over
=item PP_encode_box
Returns
{
depth
=> $depth,
indent_count => $indent_count,
}

=item PP_decode_box
Returns
{
text => $text,
at
=> $at,
ch
=> $ch,
len => $len,
depth => $depth,
encoding
=> $encoding,
is_valid_utf8 => $is_valid_utf8,
};
=back
=head1 MAPPING
This section is copied from JSON::XS and modified to C<JSON::PP>.
JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

Open Source Used In Tetration 3.5.1 35429


See to L<JSON::XS/MAPPING>.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in Perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, C<JSON> will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, C<JSON> only guarantees precision up to but not including the least significant bit.

When C<allow_bignum> is enable, the big integers
and the numeric can be optionally converted into L<Math::BigInt> and L<Math::BigFloat> objects.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::is_bool> function.

print JSON::PP::true . "n";
=> true
print JSON::PP::true + 1;
=> 1

ok(JSON::true eq '1');
ok(JSON::true == 1);

C<JSON> will install these missing overloading features to the backend modules.

=item null

A JSON null atom becomes C<undef> in Perl.

C<JSON::PP::null> returns C<undef>.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. C<JSON> optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text
against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

```
to_json [0,JSON::PP::true]      # yields [false,true]
```

=item JSON::PP::true, JSON::PP::false, JSON::PP::null

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

JSON::PP::null returns C<undef>.

=item blessed objects

Blessed objects are not directly representable in JSON. See the C<allow_blessed> and C<convert_blessed> methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

See to L<convert_blessed>.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
  # dump as number
  encode_json [-3.0e17]    # yields [-3e+17]
  my $value = 5; encode_json [$value] # yields [5]

  # used as string, so dump as string
  print $value;
  encode_json [$value]     # yields ["5"]
```

---

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# undef becomes null
encode_json [undef]               # yields [null]

You can force the type to be a string by stringifying it:

    my $x = 3.1; # some variable containing a number
    "$x";       # stringified
    $x .= "";   # another, more awkward way to stringify
    print $x;   # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

    my $x = "3"; # some variable containing a string
    $x += 0;    # numify it, ensuring it will be dumped as a number
    $x *= 1;    # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

=item Big Number

When C<allow_bignum> is enable, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers.

=back

=head1 UNICODE HANDLING ON PERLS

If you do not know about Unicode on Perl well, please check L<JSON::XS/A FEW NOTES ON UNICODE AND PERL>.

=head2 Perl 5.8 and later

Perl can handle Unicode and the JSON::PP de/encode methods also work properly.

    $json->allow_nonref->encode(chr hex 3042);
    $json->allow_nonref->encode(chr hex 12345);

Returns C\"\u3042\" and C\\ud808\udf45\" respectively.
$json->allow_nonref->decode("\u3042");
$json->allow_nonref->decode("\ud808\udf45");

Returns UTF-8 encoded strings with UTF8 flag, regarded as C<U+3042> and C<U+12345>.

Note that the versions from Perl 5.8.0 to 5.8.2, Perl built-in C<join> was broken, so JSON::PP wraps the C<join> with a subroutine. Thus JSON::PP works slow in the versions.

=head2 Perl 5.6

Perl can handle Unicode and the JSON::PP de/encode methods also work.

=head2 Perl 5.005

Perl 5.005 is a byte semantics world -- all strings are sequences of bytes. That means the unicode handling is not available.

In encoding,

    $json->allow_nonref->encode(chr hex 3042);  # hex 3042 is 12354.
    $json->allow_nonref->encode(chr hex 12345); # hex 12345 is 74565.

Returns C<B> and C<E>, as C<chr> takes a value more than 255, it treats as C<$value % 256>, so the above codes are equivalent to :

    $json->allow_nonref->encode(chr 66);
    $json->allow_nonref->encode(chr 69);

In decoding,

    $json->decode("\u00e3\u0081\u0082");

The returned is a byte sequence C<0xE3 0x81 0x82> for UTF-8 encoded japanese character (C<HIRAGANA LETTER A>). And if it is represented in Unicode code point, C<U+3042>.

Next,

    $json->decode("\u3042");

We ordinary expect the returned value is a Unicode character C<U+3042>. But here is 5.005 world. This is C<0xE3 0x81 0x82>.

    $json->decode("\ud808\udf45");

This is not a character C<U+12345> but bytes - C<0xf0 0x92 0x8d 0x85>.  

Open Source Used In Tetration 3.5.1 35434
=head1 TODO

=over

=item speed

=item memory saving

=back

=head1 SEE ALSO

Most of the document are copied and modified from JSON::XS doc.

L<JSON::XS>

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

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=head1 COPYRIGHT AND LICENSE

Copyright 2007-2012 by Makamaka Hannyaharamitu

This library is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1138400534_1614282218.45/0/libjson-perl-2-61-orig-1-tar-gz/JSON-2.61/lib/JSON/backportPP.pm

No license file was found, but licenses were detected in source scan.

JSON version 2.58

"JSON::PP" was earlier included in the "JSON" distribution,
but has since Perl 5.14 been a core module. For this reason,
"JSON::PP" was removed from the "JSON" distribution and can
now be found also in the Perl5 repository at
http://perl5.git.perl.org/perl.git

(The newest "JSON::PP" version still exists in CPAN.)

Instead, the "JSON" distribution will include "JSON::backportPP"
for backwards computability. JSON.pm should thus work as it did before.

=================

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

if you use cpanm, can install JSON::XS at once.

cpanm --with-recommends JSON

NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;

$json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP (de|en)code instead of XS ones.

use JSON -support_by_pp;
# option-acceptable interfaces (expect/generate UNICODE by default)

$json_text = to_json( $perl_scalar, { ascii => 1, pretty => 1 } );
perl_scalar = from_json( $json_text, { utf8 => 1 } );

# Between (en|de)code_json and (to|from)_json, if you want to write
# a code which communicates to an outer world (encoded in UTF-8),
# recommend to use (en|de)code_json.

VERSION
2.58

This version is compatible with JSON::XS 2.27 and later.

NOTE
JSON::PP was earlier included in the "JSON" distribution, but has since
Perl 5.14 been a core module. For this reason, JSON::PP was removed from
the JSON distribution and can now be found also in the Perl5 repository
at

* <http://perl5.git.perl.org/perl.git>

(The newest JSON::PP version still exists in CPAN.)

Instead, the "JSON" distribution will include JSON::backportPP for
backwards computability. JSON.pm should thus work as it did before.

DESCRIPTION
************************** CAUTION ********************************
* This is 'JSON module version 2' and there are many differences  *
* to version 1.xx                                                 *
* Please check your applications using old version.               *
* See to 'INCOMPATIBLE CHANGES TO OLD VERSION'                  *
*******************************************************************

JSON (JavaScript Object Notation) is a simple data format. See to
<http://www.json.org/> and

This module converts Perl data structures to JSON and vice versa using
either JSON::XS or JSON::PP.

JSON::XS is the fastest and most proper JSON module on CPAN which must
be compiled and installed in your environment. JSON::PP is a pure-Perl
module which is bundled in this distribution and has a strong
compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP
instead. So its features completely depend on JSON::XS or JSON::PP.

See to "BACKEND MODULE DECISION".

To distinguish the module name 'JSON' and the format type JSON, the former is quoted by C<> (its results vary with your using media), and the latter is left just as it is.

Module name : "JSON"

Format type : JSON

FEATURES

* correct unicode handling

This module (i.e. backend modules) knows how to handle Unicode, documents how and when it does so, and even documents what "correct" means.

Even though there are limitations, this feature is available since Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions "JSON" should call JSON::PP as the backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to "UNICODE HANDLING ON PERLS" in JSON::PP for more information.

See also to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS and "ENCODING/CODESET_FLAG_NOTES" in JSON::XS.

* round-trip integrity

When you serialise a perl data structure using only data types supported by JSON and Perl, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There *are* minor exceptions to this, read the "MAPPING" section below to learn about those.

* strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature).
See to "FEATURES" in JSON::XS and "FEATURES" in JSON::PP.

* fast

This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favorably in terms of speed, too.

If not available, "JSON" returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

* simple to use

This module has both a simple functional interface as well as an object oriented interface interface.

* reasonably versatile output formats

You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

FUNCTIONAL INTERFACE
Some documents are copied and modified from "FUNCTIONAL INTERFACE" in JSON::XS. "to_json" and "from_json" are additional functions.

encode_json

```perl
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

```perl
$json_text = JSON->new->utf8->encode($perl_scalar)
```

decode_json

```perl
$perl_scalar = decode_json $json_text
```

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:
$perl_scalar = JSON->new->utf8->decode($json_text)

to_json

$json_text = to_json($perl_scalar)

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

$json_text = JSON->new->encode($perl_scalar)

Takes a hash reference as the second.

$json_text = to_json($perl_scalar, $flag_hashref)

So,

$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
equivalent to:

$json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

If you want to write a modern perl code which communicates to outer world, you should use "encode_json" (supposed that JSON data are encoded in UTF-8).

from_json

$perl_scalar = from_json($json_text)

The opposite of "to_json": expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON->decode($json_text)

Takes a hash reference as the second.

$perl_scalar = from_json($json_text, $flag_hashref)

So,

$perl_scalar = from_json($json_text, {utf8 => 1})
equivalent to:
$perl_scalar = JSON->new->utf8(1)->decode($json_text)

If you want to write a modern Perl code which communicates to outer world, you should use "decode_json" (supposed that JSON data are encoded in UTF-8).

JSON::is_bool
$is_boolean = JSON::is_bool($scalar)

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

JSON::true
Returns JSON true value which is blessed object. It "isa" JSON::Boolean object.

JSON::false
Returns JSON false value which is blessed object. It "isa" JSON::Boolean object.

JSON::null
Returns "undef".

See MAPPING, below, for more information on how JSON values are mapped to Perl.

HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER
This section supposes that your Perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use "decode_json" or "JSON" module object with "utf8" enable. And the decoded result will contain UNICODE characters.

# from network
my $json = JSON->new->utf8;
my $json_text = CGI->new->param('json_data');
my $perl_scalar = $json->decode($json_text);

# from file content
local $/;
open( my $fh, '<', 'json.data' );
$json_text = <$fh>;
$perl_scalar = decode_json($json_text);

If an outer data is not encoded in UTF-8, firstly you should "decode" it.
use Encode;
local $/;
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;

In this case, $unicode_json_text is of course UNICODE string. So you
cannot use "decode_json" nor "JSON" module object with "utf8" enable.
Instead of them, you use "JSON" module object with "utf8" disable or
"from_json".

$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );
# or
$perl_scalar = from_json( $unicode_json_text );

Or "encode 'utf8'" and "decode_json":

$perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
# this way is not efficient.

And now, you want to convert your $perl_scalar into JSON data and send
it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted
data to be encoded in UTF-8, you should use "encode_json" or "JSON"
module object with "utf8" enable.

print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );

If $perl_scalar does not contain UNICODE but $encoding-encoded strings
for some reason, then its characters are regarded as latin1 for perl
(because it does not concern with your $encoding). You cannot use
"encode_json" nor "JSON" module object with "utf8" enable. Instead of
them, you use "JSON" module object with "utf8" disable or "to_json".
Note that the resulted text is a UNICODE string but no problem to print
it.

# $perl_scalar contains $encoding encoded string values
$unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
# or
$unicode_json_text = to_json( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;

Or "decode $encoding" all string values and "encode_json":

$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.

See to Encode, perluniintro.

COMMON OBJECT-ORIENTED INTERFACE

new

$json = JSON->new

Returns a new "JSON" object inherited from either JSON::XS or JSON::PP that can be used to de/encode JSON strings.

All boolean flags described below are by default *disabled*.

The mutators for flags all return the JSON object again and thus calls can be chained:

my $json = JSON->new->utf8->space_after->encode({ a => [1,2]})
=> { "a": [1, 2] }

ascii

$json = $json->ascii([$enable])

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \\uXXXX or a double \uHHHHuLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

JSON->new->ascii(1)->encode([chr 0x10401])
If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

```perl
$enabled = $json->get_latin1

JSON->new->latin1->encode (['\x{89}\x{abc}'])
=> ['\x{89}\u0abc']    # (perl syntax, U+abc escaped, U+89 not)
```

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsoncontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsontext);
```

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.
pretty
   $json = $json->pretty([$enable])

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

   $json->indent->space_before->space_after

The indent space length is three and JSON::XS cannot change the indent space length.

indent
   $json = $json->indent([$enable])

   $enabled = $json->get_indent

   If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, identifying them properly.

   If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

   This setting has no effect when decoding JSON texts.

   The indent space length is three. With JSON::PP, you can also access "indent_length" to change indent space length.

space_before
   $json = $json->space_before([$enable])

   $enabled = $json->get_space_before

   If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

   If $enable is false, then the "encode" method will not add any extra space at those places.

   This setting has no effect when decoding JSON texts.

   Example, space_before enabled, space_after and indent disabled:

   {"key":"value"}
space_after

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the ",," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!* I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* List items can have an end-comma

JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[ 
  1, 
  2, <- this comma not normally allowed 
]
* shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
  # neither this one...
]
```

**canonical**

```perl
$json = $json->canonical($enable)

$enabled = $json->get_canonical
```

If $enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

**allow_nonref**

```perl
$json = $json->allow_nonref($enable)

$enabled = $json->get_allow_nonref
```

If $enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If $enable is false, then the "encode" method will croak if it isn’t
passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

```perl
JSON->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"
```

### allow_unknown

```perl
$json = $json->allow_unknown ($enable)

$enabled = $json->get_allow_unknown
```

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by allow_nonref.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

### allow_blessed

```perl
$json = $json->allow_blessed ($enable)

$enabled = $json->get_allow_blessed
```

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference. Instead, the value of the convert_blessed option will decide whether "null" ("convert_blessed" disabled or no "TO_JSON" method found) or a representation of the object ("convert_blessed" enabled and "TO_JSON" method found) is being encoded. Has no effect on "decode".

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object.

### convert_blessed

```perl
$json = $json->convert_blessed ($enable)

$enabled = $json->get_convert_blessed
```

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no
"TO_JSON" method is found, the value of "allow_blessed" will decide what to do.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (not by the user of the object) are usually in upper case letters and to avoid collisions with the "to_json" function or method.

This setting does not yet influence "decode" in any way.

If $enable is false, then the "allow_blessed" setting will decide what to do when a blessed object is found.

convert_blessed_universally mode

If use "JSON" with "--convert_blessed_universally", the "UNIVERSAL::TO_JSON" subroutine is defined as the below code:

```perl
*UNIVERSAL::TO_JSON = sub {
  my $b_obj = B::svref_2object( $_[0] );
  return $b_obj->isa('B::HV') ? %{ $_[0] } :
    $b_obj->isa('B::AV') ? @{$_[0]} :
    undef
};
```

This will cause that "encode" method converts simple blessed objects into JSON objects as non-blessed object.

```
JSON --convert_blessed_universally;
$json->allow_blessed->convert_blessed->encode( $blessed_object )
```

This feature is experimental and may be removed in the future.

filter_json_object

```
$json = $json->filter_json_object([$coderef])
```

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* undef, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.
When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```perl
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2");
```

filter_json_single_key_object

```perl
$json = $json->filter_json_single_key_object($key => $coderef)
```

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "_ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ __widget__ => <id> }" into the corresponding $WIDGET{<id>} object:

```perl
# return whatever is in $WIDGET{5}:
JSON
  ->new
  ->filter_json_single_key_object (__widget__ => sub {
```
$WIDGET{ $_[0] }

->decode ('"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;

  unless ($self->{id}) {
    $self->{id} = ..get..some..id..
    $WIDGET{$self->{id}} = $self;
  }

  { __widget__ => $self->{id} }
}

shrink
$json = $json->shrink([$enable])

$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either "encode" or
"decode" to their minimum size possible. This can save memory when your
JSON texts are either very very long or you have many short strings. It
will also try to downgrade any strings to octet-form if possible: perl
stores strings internally either in an encoding called UTF-X or in
octet-form. The latter cannot store everything but uses less space in
general (and some buggy Perl or C code might even rely on that internal
representation being used).

With JSON::PP, it is noop about resizing strings but tries
"utf8::downgrade" to the returned string by "encode". See to utf8.

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS and "METHODS" in
JSON::PP.

max_depth
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default 512) accepted while encoding or
decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of hash- or arrayrefs that the
encoder needs to traverse to reach a given point or the number of "[" or "["] characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

Note that nesting is implemented by recursion in C. The default value has been chosen to be as large as typical operating systems allow without crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutine' at the perl runtime phase.

See "SECURITY CONSIDERATIONS" in JSON::XS for more info on why this is useful.

max_size

\$json = $json->max_size([maximum_string_size])

\$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

See "SECURITY CONSIDERATIONS" in JSON::XS, below, for more info on why this is useful.

encode

\$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. "undef") become JSON "null" values. References to the integers 0 and 1 are converted into "true" and "false".

decode

\$perl_scalar = $json->decode($json_text)
The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. "true" becomes 1 ("JSON::true"), "false" becomes 0 ("JSON::false") and "null" becomes "undef".

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

JSON->new->decode_prefix ("[1] the tail")
=> ([], 3)

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS

property

$boolean = $json->property($property_name)

Returns a boolean value about above some properties.

The available properties are "ascii", "latin1", "utf8", "indent", "space_before", "space_after", "relaxed", "canonical", "allow_nonref", "allow_unknown", "allow_blessed", "convert_blessed", "shrink", "max_depth" and "max_size".

$boolean = $json->property('utf8');
=> 0
$json->utf8;
$boolean = $json->property('utf8');
=> 1

Sets the property with a given boolean value.

$json = $json->property($property_name => $boolean);

With no argument, it returns all the above properties as a hash reference.

$flag_hashref = $json->property();

INCREMENTAL PARSING
Most of this section are copied and modified from "INCREMENTAL PARSING" in JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

The backend module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect parenthesis mismatches. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse

\$json->incr_parse( [\$string] ) # void context

\$obj_or_undef = \$json->incr_parse( [\$string] ) # scalar context

@obj_or_empty = \$json->incr_parse( [\$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If \$string is given, then this string is appended to the already existing JSON fragment stored in the \$json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list.
otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON->new->incr_parse ("[5][7][1.2]");

incr_text
    $lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a preceding call to "incr_parse" in *scalar context* successfully returned an object. Under all other circumstances you must not call this function (I mean it, although in simple tests it might actually work, it *will* fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

    $json->incr_text =~ s/\s*,\s*//;

In Perl 5.005, "lvalue" attribute is not available. You must write codes like the below:

    $string = $json->incr_text;
    $string =~ s/\s*,\s*//;
    $json->incr_text( $string );

incr_skip
    $json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after "incr_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

incr_reset
    $json->incr_reset

This completely resets the incremental parser, that is, after this call,
it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to "INCREMENTAL PARSING" in JSON::XS for examples.

JSON::PP SUPPORT METHODS

The below methods are JSON::PP own methods, so when "JSON" works with JSON::PP (i.e. the created object is a JSON::PP object), available. See to "JSON::PP OWN METHODS" in JSON::PP in detail.

If you use "JSON" with additional "-support_by_pp", some methods are available even with JSON::XS. See to "USE PP FEATURES EVEN THOUGH XS BACKEND".

BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json( ["/"], {escape_slash => 1} );
print from_json( ["foo"], {utf8 => 1} );

If you do not want to all functions but "-support_by_pp", use "-no_export".

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

allow_singlequote

$json = $json->allow_singlequote([$enable])

If $enable is true (or missing), then "decode" will accept any JSON strings quoted by single quotations that are invalid JSON format.

$json->allow_singlequote->decode("foo":"bar");
$json->allow_singlequote->decode('foo':'bar');
$json->allow_singlequote->decode( 'foo':'bar' );

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

allow_barekey
$json = $json->allow_barekey([$enable])

If $enable is true (or missing), then "decode" will accept bare keys of JSON object that are invalid JSON format.

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

allow_bignum

$json = $json->allow_bignum([$enable])

If $enable is true (or missing), then "decode" will convert the big integer Perl cannot handle as integer into a Math::BigInt object and convert a floating number (any) into a Math::BigFloat.

On the contrary, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers with "allow_blessed" enable.

$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001

See to MAPPING about the conversion of JSON number.

loose

$json = $json->loose([$enable])

The unescaped \[x00-\x1f\x22\x2f\x5c\] strings are invalid in JSON strings and the module doesn't allow to "decode" to these (except for \x2f). If $enable is true (or missing), then "decode" will accept these unescaped strings.

$json->loose->decode(qq|
abc
def|));

See to "JSON::PP OWN METHODS" in JSON::PP.

escape_slash

$json = $json->escape_slash([$enable])

According to JSON Grammar, *slash* (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If $enable is true (or missing), then "encode" will escape slashes.
indent_length
$json = $json->indent_length($length)
With JSON::XS, The indent space length is 3 and cannot be changed. With
JSON::PP, it sets the indent space length with the given $length. The
default is 3. The acceptable range is 0 to 15.
sort_by
$json = $json->sort_by($function_name)
$json = $json->sort_by($subroutine_ref)
If $function_name or $subroutine_ref are set, its sort routine are used.
$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }
As the sorting routine runs in the JSON::PP scope, the given subroutine
name and the special variables $a, $b will begin with 'JSON::PP::'.
If $integer is set, then the effect is same as "canonical" on.
See to "JSON::PP OWN METHODS" in JSON::PP.
MAPPING
This section is copied from JSON::XS and modified to "JSON". JSON::XS
and JSON::PP mapping mechanisms are almost equivalent.
See to "MAPPING" in JSON::XS.
JSON -> PERL
object
A JSON object becomes a reference to a hash in Perl. No ordering of
object keys is preserved (JSON does not preserver object key
ordering itself).
array
A JSON array becomes a reference to an array in Perl.
string
A JSON string becomes a string scalar in Perl - Unicode codepoints
in JSON are represented by the same codepoints in the Perl string,
so no manual decoding is necessary.

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A JSON number becomes either an integer, numeric (floating point) or string scalar in Perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, "JSON" will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, "JSON" only guarantees precision up to but not including the least significant bit.

If the backend is JSON::PP and "allow_bignum" is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

true, false

These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

If "JSON::true" and "JSON::false" are used as strings or compared as strings, they represent as "true" and "false" respectively.

```
print JSON::true . "\n";
=> true
print JSON::true + 1;
=> 1

ok(JSON::true eq 'true');
ok(JSON::true eq '1');
ok(JSON::true == 1);
```
"JSON" will install these missing overloading features to the backend modules.

null
A JSON null atom becomes "undef" in Perl.

"JSON::null" returns "undef".

PERL -> JSON
The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references
Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. "JSON" optionally sort the hash keys (determined by the *canonical* flag), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using "tie" mechanism.

array references
Perl array references become JSON arrays.

other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

    to_json [0,JSON::true]      # yields [false,true]

JSON::true, JSON::false, JSON::null
These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

    JSON::null returns "undef".

blessed objects
Blessed objects are not directly representable in JSON. See the "allow_blessed" and "convert_blessed" methods on various options on how to deal with this: basically, you can choose between throwing an
exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With "convert_blessed_universally" mode, "encode" converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

    use JSON -convert_blessed_universally;
    JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );

See to convert_blessed.

simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17]                # yields [-3e+17]
    my $value = 5; encode_json [$value]  # yields [5]

    # used as string, so dump as string
    print $value;
    encode_json [$value]                 # yields ['5']

    # undef becomes null
    encode_json [undef]                  # yields [null]

You can force the type to be a string by stringifying it:

    my $x = 3.1; # some variable containing a number
    "$x";       # stringified
    $x .= "";   # another, more awkward way to stringify
    print $x;  # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

    my $x = "3"; # some variable containing a string
    $x += 0;    # numify it, ensuring it will be dumped as a number
    $x *= 1;    # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl,
which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

Big Number
If the backend is JSON::PP and "allow_bignum" is enable, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers.

JSON and ECMAscript
See to "JSON and ECMAscript" in JSON::XS.

JSON and YAML
JSON is not a subset of YAML. See to "JSON and YAML" in JSON::XS.

BACKEND MODULE DECISION
When you use "JSON", "JSON" tries to "use" JSON::XS. If this call failed, it will "uses" JSON::PP. The required JSON::XS version is *2.2* or later.

The "JSON" constructor method returns an object inherited from the backend module, and JSON::XS object is a blessed scalar reference while JSON::PP is a blessed hash reference.

So, your program should not depend on the backend module, especially returned objects should not be modified.

my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object'; # this code may raise an error!

To check the backend module, there are some methods - "backend", "is_pp" and "is-xs".

JSON->backend; # 'JSON::XS' or 'JSON::PP'

JSON->backend->is_pp: # 0 or 1

JSON->backend->is-xs: # 1 or 0

$json->is-xs; # 1 or 0

$json->is_pp; # 0 or 1

If you set an environment variable "PERL_JSON_BACKEND", the calling action will be changed.

PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
Always use JSON::PP

PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
(The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
Always use compiled JSON::XS, die if it isn't properly compiled & installed.

PERL_JSON_BACKEND = 'JSON::backportPP'
Always use JSON::backportPP. JSON::backportPP is JSON::PP back port module. "JSON" includes JSON::backportPP instead of JSON::PP.

These ideas come from DBI::PurePerl mechanism.

element:

BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }
use JSON; # always uses JSON::PP

In future, it may be able to specify another module.

USE PP FEATURES EVEN THOUGH XS BACKEND
Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will "warn" and be noop.

But if you "use" "JSON" passing the optional string "-support_by_pp", it makes a part of those unsupported methods available. This feature is achieved by using JSON::PP in "de/encode".

BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON -support_by_pp;
my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

At this time, the returned object is a "JSON::Backend::XS::Supportable" object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - "loose", "allow_bignum", "allow_barekey", "allow_singlequote", "escape_slash" and "indent_length".

When any unsupported methods are not enable, "XS de/encode" will be used as is. The switch is achieved by changing the symbolic tables.

"-support_by_pp" is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.
See to "JSON::PP SUPPORT METHODS".

INCOMPATIBLE CHANGES TO OLD VERSION

There are big incompatibility between new version (2.00) and old (1.xx).
If you use old "JSON" 1.xx in your code, please check it.

See to "Transition ways from 1.xx to 2.xx."

jsonToObj and objToJson are obsoleted.
Non Perl-style name "jsonToObj" and "objToJson" are obsoleted (but not yet deleted from the source). If you use these functions in your code, please replace them with "from_json" and "to_json".

Global variables are no longer available.
"JSON" class variables - $JSON::AUTOCONVERT, $JSON::BareKey, etc... - are not available any longer. Instead, various features can be used through object methods.

Package JSON::Converter and JSON::Parser are deleted.
Now "JSON" bundles with JSON::PP which can handle JSON more properly than them.

Package JSON::NotString is deleted.
There was "JSON::NotString" class which represents JSON value "true", "false", "null" and numbers. It was deleted and replaced by "JSON::Boolean".

"JSON::Boolean" represents "true" and "false".

"JSON::Boolean" does not represent "null".

"JSON::null" returns "undef".

"JSON" makes JSON::XS::Boolean and JSON::PP::Boolean is-a relation to JSON::Boolean.

function JSON::Number is obsoleted.
"JSON::Number" is now needless because JSON::XS and JSON::PP have round-trip integrity.

JSONRPC modules are deleted.
Perl implementation of JSON-RPC protocol - "JSONRPC ", "JSONRPC::Transport::HTTP" and "Apache::JSONRPC " are deleted in this distribution. Instead of them, there is JSON::RPC which supports JSON-RPC protocol version 1.1.

Transition ways from 1.xx to 2.xx.
You should set "suport_by_pp" mode firstly, because it is always successful for the below codes even with JSON::XS.

```perl
use JSON -support_by_pp;

Exported jsonToObj (simple)
from_json($json_text);

Exported objToJson (simple)
to_json($perl_scalar);

Exported jsonToObj (advanced)
$flags = {allow_barekey => 1, allow_singlequote => 1};
from_json($json_text, $flags);

equivalent to:

$JSON::BareKey = 1;
$JSON::QuotApos = 1;
jsonToObj($json_text);

Exported objToJson (advanced)
$flags = {allow_blessed => 1, allow_barekey => 1};
to_json($perl_scalar, $flags);

equivalent to:

$JSON::BareKey = 1;
objToJson($perl_scalar);

jsonToObj as object method
$json->decode($json_text);

objToJson as object method
$json->encode($perl_scalar);

new method with parameters
The "new" method in 2.x takes any parameters no longer. You can set parameters instead:

$json = JSON->new->pretty;

$JSON::Pretty, $JSON::Indent, $JSON::Delimiter
If "indent" is enable, that means $JSON::Pretty flag set. And $JSON::Delimiter was substituted by "space_before" and "space_after". In conclusion:

$json->indent->space_before->space_after;
```
Equivalent to:

$json->pretty;

To change indent length, use "indent_length".

(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->pretty->indent_length(2)->encode($perl_scalar);

$JSON::BareKey
(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_barekey->decode($json_text)

$JSON::ConvBlessed
use "-convert_blessed_universally". See to convert_blessed.

$JSON::QuotApos
(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_singlequote->decode($json_text)

$JSON::SingleQuote
Disable. "JSON" does not make such a invalid JSON string any longer.

$JSON::KeySort
$json->canonical->encode($perl_scalar)

This is the ascii sort.

If you want to use with your own sort routine, check the "sort_by" method.

(Only with JSON::PP, even if "-support_by_pp" is used currently.)

$json->sort_by($sort Routine_ref)->encode($perl_scalar)

$json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

Can't access $a and $b but $JSON::PP::a and $JSON::PP::b.

$JSON::SkipInvalid
$json->allow_unknown

$JSON::AUTOCONVERT
Needless. "JSON" backend modules have the round-trip integrity.
$\text{JSON}::$\text{UTF8}

Needless because "JSON" (JSON::XS/JSON::PP) sets the UTF8 flag on properly.

# With UTF8-flagged strings

$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true

$json_text = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = "". chr(1000) . ""; # UTF8-flagged

$perl_scalar = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true

$perl_scalar = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'

See to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS.

$\text{JSON}::$\text{UnMapping}

Disable. See to MAPPING.

$\text{JSON}::$\text{SelfConvert}

This option was deleted. Instead of it, if a given blessed object
has the "TO\_JSON" method, "TO\_JSON" will be executed with
"convert\_blessed".

$json->convert\_blessed->encode($blessed\_hashref\_or\_arrayref)
# if need, call allow\_blessed

Note that it was "toJson" in old version, but now not "toJson" but
"TO\_JSON".

TODO

example programs

THREADS

No test with JSON::PP. If with JSON::XS, See to "THREADS" in JSON::XS.

BUGS
Please report bugs relevant to "JSON" to <makamaka[at]cpan.org>.

SEE ALSO
Most of the document is copied and modified from JSON::XS doc.

JSON::XS, JSON::PP

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

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Found in path(s):
* /opt/cola/permits/1138400534_1614282218.45/0/libjson-perl-2-61-orig-1-tar-gz/JSON-2.61/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, <makamaka[at]cpan.org>

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Found in path(s):
* /opt/cola/permits/1138400534_1614282218.45/0/libjson-perl-2-61-orig-1-tar-gz/JSON-2.61/lib/JSON/backportPP/Compat5005.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON - JavaScript Object Notation encoder/decoder

=head1 SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;

$json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP (de|en)code instead of XS ones.

use JSON -support_by_pp;

# option-acceptable interfaces (expect/generate UNICODE by default)

$json_text = to_json( $perl_scalar, { ascii => 1, pretty => 1 } );
$perl_scalar = from_json( $json_text, { utf8 => 1 } );

# Between (en|de)code_json and (to|from)_json, if you want to write
# a code which communicates to an outer world (encoded in UTF-8),
# recommend to use (en|de)code_json.

=head1 VERSION

2.59

This version is compatible with JSON::XS B<2.34> and later.
NOTE

JSON::PP was earlier included in the C<JSON> distribution, but has since Perl 5.14 been a core module. For this reason, L<JSON::PP> was removed from the JSON distribution and can now be found also in the Perl5 repository at

=item * L<http://perl5.git.perl.org/perl.git>

(The newest JSON::PP version still exists in CPAN.)

Instead, the C<JSON> distribution will include JSON::backportPP for backwards computability. JSON.pm should thus work as it did before.

DESCRIPTION

********************************************************************
* This is 'JSON module version 2' and there are many differences  *
* to version 1.xx                                               *
* Please check your applications using old version.             *
* See to 'INCOMPATIBLE CHANGES TO OLD VERSION'                   *
********************************************************************

JSON (JavaScript Object Notation) is a simple data format. See to L<http://www.json.org/> and C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>).

This module converts Perl data structures to JSON and vice versa using either L<JSON::XS> or L<JSON::PP>.

JSON::XS is the fastest and most proper JSON module on CPAN which must be compiled and installed in your environment.

JSON::PP is a pure-Perl module which is bundled in this distribution and has a strong compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP instead. So its features completely depend on JSON::XS or JSON::PP.

See to L<BACKEND MODULE DECISION>.

To distinguish the module name 'JSON' and the format type JSON, the former is quoted by CE<lt>E<gt>(its results vary with your using media),
and the latter is left just as it is.

Module name : C<JSON>

Format type : JSON

=head2 FEATURES

=over

=item * correct unicode handling

This module (i.e. backend modules) knows how to handle Unicode, documents
how and when it does so, and even documents what "correct" means.

Even though there are limitations, this feature is available since Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions
C<JSON> should call JSON::PP as the backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem,
JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available.
See to L<JSON::PP/UNICODE HANDLING ON PERLS> for more information.

See also to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL>
and L<JSON::XS/ENCODING/CODESET_FLAG_NOTES>.

=item * round-trip integrity

When you serialise a perl data structure using only data types supported
by JSON and Perl, the deserialised data structure is identical on the Perl
level. (e.g. the string "2.0" doesn't suddenly become "2" just because
it looks like a number). There I<are> minor exceptions to this, read the
L</MAPPING> section below to learn about those.

=item * strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default,
and only JSON is accepted as input by default (the latter is a security
feature).

See to L<JSON::XS/FEATURES> and L<JSON::PP/FEATURES>.

=item * fast

This module returns a JSON::XS object itself if available.
Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favorably in terms of speed, too.

If not available, C<JSON> returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

=item * simple to use

This module has both a simple functional interface as well as an object oriented interface interface.

=item * reasonably versatile output formats

You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

=head1 FUNCTIONAL INTERFACE

Some documents are copied and modified from L<JSON::XS/FUNCTIONAL INTERFACE>. C<to_json> and C<from_json> are additional functions.

=head2 encode_json

$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

$json_text = JSON->new->utf8->encode($perl_scalar)

=head2 decode_json

$perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON->new->utf8->decode($json_text)
=head2 to_json

$json_text = to_json($perl_scalar)

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

$json_text = JSON->new->encode($perl_scalar)

Takes a hash reference as the second.

$json_text = to_json($perl_scalar, $flag_hashref)

So,

$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})

equivalent to:

$json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

If you want to write a modern perl code which communicates to outer world, you should use C<encode_json> (supposed that JSON data are encoded in UTF-8).

=head2 from_json

$perl_scalar = from_json($json_text)

The opposite of C<to_json>: expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON->decode($json_text)

Takes a hash reference as the second.

$perl_scalar = from_json($json_text, $flag_hashref)

So,

$perl_scalar = from_json($json_text, {utf8 => 1})

equivalent to:

$perl_scalar = JSON->new->utf8(1)->decode($json_text)
If you want to write a modern perl code which communicates to outer world, you should use `decode_json` (supposed that JSON data are encoded in UTF-8).

```perl
=head2 JSON::is_bool

```

```perl
$nr = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON true and false in Perl strings.

```perl
=head2 JSON::true

```

Returns JSON true value which is blessed object. It isa JSON::Boolean object.

```perl
=head2 JSON::false

```

Returns JSON false value which is blessed object. It isa JSON::Boolean object.

```perl
=head2 JSON::null

```

Returns undef. See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER

This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use `decode_json` or `JSON` module object with utf8 enable. And the decoded result will contain UNICODE characters.

```perl
# from network
my $json = JSON->new->utf8;
my $json_text = CGI->new->param( 'json_data' );
my $perl_scalar = $json->decode( $json_text );

# from file content
local $/
open my $fh, '<', 'json.data' ;
$json_text = <$fh> ;
$perl_scalar = decode_json( $json_text ) ;
```
If an outer data is not encoded in UTF-8, firstly you should C<decode> it.

```perl
use Encode;
local $/;
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;
```

In this case, C<$unicode_json_text> is of course UNICODE string. So you B<cannot> use C<decode_json> nor C<JSON> module object with C<utf8> enable. Instead of them, you use C<JSON> module object with C<utf8> disable or C<from_json>.

```perl
$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );
# or
$perl_scalar = from_json( $unicode_json_text );
```

Or C<encode 'utf8'> and C<decode_json>:

```perl
$perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
# this way is not efficient.
```

And now, you want to convert your C<$perl_scalar> into JSON data and send it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted data to be encoded in UTF-8, you should use C<encode_json> or C<JSON> module object with C<utf8> enable.

```perl
print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );
```

If C<$perl_scalar> does not contain UNICODE but C<$encoding>-encoded strings for some reason, then its characters are regarded as B<latin1> for perl (because it does not concern with your $encoding). You B<cannot> use C<encode_json> nor C<JSON> module object with C<utf8> enable. Instead of them, you use C<JSON> module object with C<utf8> disable or C<to_json>.

Note that the resulted text is a UNICODE string but no problem to print it.

```perl
# $perl_scalar contains $encoding encoded string values
$unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
# or
$unicode_json_text = to_json( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;

Or C<decode $encoding> all string values and C<encode_json>:

$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.

See to L<Encode>, L<perluniintro>.

=head1 COMMON OBJECT-ORIENTED INTERFACE

=head2 new

(jsonPath = JSON->new

Returns a new C<JSON> object inherited from either JSON::XS or JSON::PP
that can be used to de/encode JSON strings.

All boolean flags described below are by default I<disabled>.

The mutators for flags all return the JSON object again and thus calls can
be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}

=head2 ascii

(jsonPath = $json->ascii([$enable])

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside
the code range 0..127. Any Unicode characters outside that range will be escaped using either
a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless
required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to L<JSON::PP/UNICODE HANDLING ON PERLS> if the backend is PP.

JSON->new->ascii(1)->encode([chr 0x10401])
If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsoncontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsoncontext);
```

See to L<JSON::PP/UNICODE HANDLING ON PERLS> if the backend is PP.
$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

$json->indent->space_before->space_after

The indent space length is three and JSON::XS cannot change the indent space length.

$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, identifying them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The indent space length is three.
With JSON::PP, you can also access C<indent_length> to change indent space length.

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C<-> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.
Example, space_before enabled, space_after and indent disabled:

{"key":"value"}

=head2 space_after

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C<:> separating keys from values in JSON objects and extra whitespace after the C<,> separating key-value pairs and array members.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

=head2 relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma
JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```plaintext
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

=item * shell-style ' '#-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```plaintext
[
  1, # this comment not allowed in JSON
    # neither this one...
]
```

=back

=head2 canonical

$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.
allow_nonref

```perl
$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref
```

If `$enable` is true (or missing), then the `encode` method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, `decode` will accept those JSON values instead of croaking.

If `$enable` is false, then the `encode` method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, `decode` will croak if given something that is not a JSON object or array.

```perl
JSON->new->allow_nonref->encode("Hello, World!")
=> "Hello, World!"
```

allow_unknown

```perl
$json = $json->allow_unknown([$enable])

$enabled = $json->get_allow_unknown
```

If `$enable` is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by `allow_nonref`.

If `$enable` is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

allow_blessed

```perl
$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed
```

If `$enable` is true (or missing), then the `encode` method will not barf when it encounters a blessed reference. Instead, the value of the `convert_blessed` option will decide whether `null` (C<convert_blessed>...
disabled or no C<TO_JSON> method found) or a representation of the
object (C<convert_blessed> enabled and C<TO_JSON> method found) is being
encoded. Has no effect on C<decode>.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters a blessed object.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<TO_JSON> method
on the object's class. If found, it will be called in scalar context
and the resulting scalar will be encoded instead of the object. If no
C<TO_JSON> method is found, the value of C<allow_blessed> will decide what
to do.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON> was chosen because other
methods called by the Perl core (== not by the user of the object) are
usually in upper case letters and to avoid collisions with the C<to_json>
function or method.

This setting does not yet influence C<decode> in any way.

If C<$enable> is false, then the C<allow_blessed> setting will decide what
to do when a blessed object is found.

=over

=item convert_blessed_universally mode

If use C<JSON> with C<-convert_blessed_universally>, the C<UNIVERSAL::TO_JSON>
subroutine is defined as the below code:

*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? %{$_[0]} 
        : $b_obj->isa('B::AV') ? @{$_[0]} 
        : undef
    ;
}
This will cause that C<encode> method converts simple blessed objects into JSON objects as non-blessed object.

```
JSON -convert_blessed_universally;
$json->allow_blessed->convert_blessed->encode($blessed_object)
```

This feature is experimental and may be removed in the future.

=head2 filter_json_object

```
$json = $json->filter_json_object([$coderef])
```

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2"}');
```

=head2 filter_json_single_key_object

```
$json = $json->filter_json_single_key_object($key => $coderef)
```

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data.
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or
C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET{<id>} >> object:

# return whatever is in $WIDGET{5}:
JSON
  ->new
  ->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] } }
  )->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;

  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
    $WIDGET{$self->{id}} = $self;
  }

  { __widget__ => $self->{id} }
}

=head2 shrink

$json = $json->shrink([$enable])
$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either
C<encode> or C<decode> to their minimum size possible. This can save
memory when your JSON texts are either very very long or you have many
short strings. It will also try to downgrade any strings to octet-form
if possible: perl stores strings internally either in an encoding called
UTF-X or in octet-form. The latter cannot store everything but uses less
space in general (and some buggy Perl or C code might even rely on that
internal representation being used).

With JSON::PP, it is noop about resizing strings but tries
C<utf8::downgrade> to the returned string by C<encode>. See to L<utf8>.

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE> and L<JSON::PP/METHODS>.

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<{> or C<}>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

Note that nesting is implemented by recursion in C. The default value has
been chosen to be as large as typical operating systems allow without
crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and
it de/encodes a deep nested object/text, it may raise a warning
'Deep recursion on subroutine' at the perl runtime phase.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size
```perl
$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS>, below, for more info on why this is useful.

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. C<undef>) become JSON C<null> values. References to the integers C<0> and C<1> are converted into C<true> and C>false.]

=head2 decode

perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. C<true> becomes C<1> (C<JSON::true>), C>false becomes C<0> (C<JSON::false>) and C<null> becomes C<undef>.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

JSON->new->decode_prefix("[1] the tail")
```
See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>

=head2 property

$boolean = $json->property($property_name)

Returns a boolean value about above some properties.

The available properties are C<ascii>, C<latin1>, C<utf8>, C<indent>, C<space_before>, C<space_after>, C<relaxed>, Ccanonical>, C<allow_nonref>, C<allow_unknown>, C<allow_blessed>, C<convert_blessed>, C<shrink>, C|max_depth> and C|max_size>.

$boolean = $json->property('utf8');
=> 0
$json->utf8;
$boolean = $json->property('utf8');
=> 1

Sets the property with a given boolean value.

$json = $json->property($property_name => $boolean);

With no argument, it returns all the above properties as a hash reference.

$flag_hashref = $json->property();

=head1 INCREMENTAL PARSING

Most of this section are copied and modified from L<JSON::XS/INCREMENTAL PARSING>.

In some cases, there is the need for incremental parsing of JSON texts. This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

The backend module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect parenthesis mismatches. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. C|max_size>) to ensure the parser will stop parsing in the presence if syntax errors.
The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<$string> is given, then this string is appended to the already existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON->new->incr_parse ("[5][7][1,2]");

=head2 incr_text

$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under
all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

$\text{json->incr_text =~ s/\s*,\s*//};$

In Perl 5.005, C<lvalue> attribute is not available. You must write codes like the below:

$\text{string = $\text{json->incr_text};}$
$\text{string =~ s/\s*,\s*//;}$
$\text{($\text{json->incr_text($\text{string });});}$

=head2 incr_skip

$\text{\text{json->incr_skip}}$

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

=head2 incr_reset

$\text{\text{json->incr_reset}}$

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to L<JSON::XS/INCREMENTAL PARSING> for examples.

=head1 JSON::PP SUPPORT METHODS

The below methods are JSON::PP own methods, so when C<JSON> works with JSON::PP (i.e. the created object is a JSON::PP object), available. See to L<JSON::PP/JSON::PP OWN METHODS> in detail.

If you use C<JSON> with additional C<-support_by_pp>, some methods
are available even with JSON::XS. See to L<USE PP FEATURES EVEN THOUGH XS BACKEND>.

BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(["/"], {escape_slash => 1});
print from_json(['"foo"]', {utf8 => 1});

If you do not want to all functions but C<-support_by_pp>,
use C<-no_export>.

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

=head2 allow_singlequote

$json = $json->allow_singlequote([$enable])

If C<$enable> is true (or missing), then C<decode> will accept
any JSON strings quoted by single quotations that are invalid JSON
format.

$json->allow_singlequote->decode({'foo':"bar"});
$json->allow_singlequote->decode({"foo":"bar"});
$json->allow_singlequote->decode({'foo':'bar'});

As same as the C<relaxed> option, this option may be used to parse
application-specific files written by humans.

=head2 allow_barekey

$json = $json->allow_barekey([$enable])

If C<$enable> is true (or missing), then C<decode> will accept
bare keys of JSON object that are invalid JSON format.

As same as the C<relaxed> option, this option may be used to parse
application-specific files written by humans.

$json->allow_barekey->decode("foo":"bar");

=head2 allow_bignum
$json = $json->allow_bignum([$enable])

If C<$enable> is true (or missing), then C<decode> will convert the big integer Perl cannot handle as integer into a L<Math::BigInt> object and convert a floating number (any) into a L<Math::BigFloat>.

On the contrary, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers with C<allow_blessed> enable.

$json->allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001

See to L<MAPPING> about the conversion of JSON number.

=head2 loose

$json = $json->loose([$enable])

The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn’t allow to C<decode> to these (except for \x2f). If C<$enable> is true (or missing), then C<decode> will accept these unescaped strings.

$json->loose->decode(qq|["abc
def"]|);

See to L<JSON::PP/JSON::PP OWN METHODS>.

=head2 escape_slash

$json = $json->escape_slash([$enable])

According to JSON Grammar, I<slash> (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If C<$enable> is true (or missing), then C<encode> will escape slashes.

=head2 indent_length

$json = $json->indent_length($length)

With JSON::XS, The indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

=head2 sort_by
$json = $json->sort_by($function_name)
$json = $json->sort_by($subroutine_ref)
If $function_name or $subroutine_ref are set, its sort routine are used.
$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }
As the sorting routine runs in the JSON::PP scope, the given
subroutine name and the special variables C<$a>, C<$b> will begin
with 'JSON::PP::'.
If $integer is set, then the effect is same as C<canonical> on.
See to L<JSON::PP/JSON::PP OWN METHODS>.
=head1 MAPPING
This section is copied from JSON::XS and modified to C<JSON>.
JSON::XS and JSON::PP mapping mechanisms are almost equivalent.
See to L<JSON::XS/MAPPING>.
=head2 JSON -> PERL
=over 4
=item object
A JSON object becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserver object key ordering itself).
=item array
A JSON array becomes a reference to an array in Perl.
=item string
A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON
are represented by the same codepoints in the Perl string, so no manual
decoding is necessary.

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A JSON number becomes either an integer, numeric (floating point) or string scalar in Perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, `JSON` will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, `JSON` only guarantees precision up to but not including the least significant bit.

If the backend is JSON::PP and `allow_bignum` is enabled, the big integers and the numeric can be optionally converted into `Math::BigInt` and `Math::BigFloat` objects.

These JSON atoms become `JSON::true` and `JSON::false`, respectively. They are overloaded to act almost exactly like the numbers `1` and `0`. You can check whether a scalar is a JSON boolean by using the `JSON::is_bool` function.

If `JSON::true` and `JSON::false` are used as strings or compared as strings, they represent as `true` and `false` respectively.
C<JSON> will install these missing overloading features to the backend modules.

=item null

A JSON null atom becomes C<undef> in Perl.

C<JSON::null> returns C<undef>.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. C<JSON> optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using C<tie> mechanism.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

    to_json [0,JSON::true]  # yields [false,true]
=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

JSON::null returns C<undef>.

=item blessed objects

Blessed objects are not directly representable in JSON. See the C<allow_blessed> and C<convert_blessed> methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With C<convert_blessed_universally> mode, C<encode> converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

use JSON -convert_blessed_universally;
JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );

See to L<convert_blessed>.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

# dump as number
encode_json [-3.0e17]                # yields [-3e+17]
my $value = 5; encode_json [$value]  # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]       # yields ["5"]

# undef becomes null
encode_json [undef]         # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1; # some variable containing a number
"$x";      # stringified
$x .= "";  # another, more awkward way to stringify
print $x;  # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

my $x = "3";  # some variable containing a string
$x += 0;  # numify it, ensuring it will be dumped as a number
$x *= 1;  # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform, such as
infinities or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

=item Big Number

If the backend is JSON::PP and C<allow_bignum> is enable,
C<encode> converts C/Math::BigInt> objects and C/Math::BigFloat>
objects into JSON numbers.

=back

=head1 JSON and ECMAscript

See to L<JSON::XS/JSON and ECMAscript>.

=head1 JSON and YAML

JSON is not a subset of YAML.
See to L<JSON::XS/JSON and YAML>.

=head1 BACKEND MODULE DECISION

When you use C<JSON>, C<JSON> tries to C<use> JSON::XS. If this call failed, it will
C<uses> JSON::PP. The required JSON::XS version is I<2.2> or later.

The C<JSON> constructor method returns an object inherited from the backend module,
and JSON::XS object is a blessed scalar reference while JSON::PP is a blessed hash
reference.

So, your program should not depend on the backend module, especially
returned objects should not be modified.
my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object'; # this code may raise an error!

To check the backend module, there are some methods - C<backend>, C<is_pp> and C<is_xs>.

JSON->backend; # 'JSON::XS' or 'JSON::PP'

JSON->backend->is_pp: # 0 or 1

JSON->backend->is_xs: # 1 or 0

$json->is_xs; # 1 or 0

$json->is_pp; # 0 or 1

If you set an environment variable C<PERL_JSON_BACKEND>, the calling action will be changed.

=over
=item PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
Always use JSON::PP

=item PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
(The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

=item PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
Always use compiled JSON::XS, die if it isn't properly compiled & installed.

=item PERL_JSON_BACKEND = 'JSON::backportPP'
Always use JSON::backportPP.

JSON::backportPP is JSON::PP back port module.
C<JSON> includes JSON::backportPP instead of JSON::PP.

=back

These ideas come from L<DBI::PurePerl> mechanism.

eexample:

BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }
use JSON; # always uses JSON::PP
In future, it may be able to specify another module.

=head1 USE PP FEATURES EVEN THOUGH XS BACKEND

Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will C<warn> and be noop.

But If you C<use> C<JSON> passing the optional string C<-support_by_pp>, it makes a part of those unsupported methods available.

This feature is achieved by using JSON::PP in C<de/encode>.

BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON -support_by_pp;
my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

At this time, the returned object is a C<JSON::Backend::XS::Supportable> object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - C<loose>, C<allow_bignum>, C<allow_barekey>, C<allow_singlequote>, C<escape_slash> and C<indent_length>.

When any unsupported methods are not enable, C<XS de/encode> will be used as is. The switch is achieved by changing the symbolic tables.

C<-support_by_pp> is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.

See to L<JSON::PP SUPPORT METHODS>.

=head1 INCOMPATIBLE CHANGES TO OLD VERSION

There are big incompatibility between new version (2.00) and old (1.xx).

If you use old C<JSON> 1.xx in your code, please check it.

See to L<Transition ways from 1.xx to 2.xx>.

=item jsonToObj and objToJson are obsoleted.

Non Perl-style name C<jsonToObj> and C<objToJson> are obsoleted (but not yet deleted from the source).

If you use these functions in your code, please replace them with C<from_json> and C<to_json>.

=item Global variables are no longer available.
C<JSON> class variables - C<$JSON::AUTOCONVERT>, C<$JSON::BareKey>, etc... - are not available any longer. Instead, various features can be used through object methods.

=item Package JSON::Converter and JSON::Parser are deleted.

Now C<JSON> bundles with JSON::PP which can handle JSON more properly than them.

=item Package JSON::NotString is deleted.

There was C<JSON::NotString> class which represents JSON value C<true>, C<false>, C<null> and numbers. It was deleted and replaced by C<JSON::Boolean>.

C<JSON::Boolean> represents C<true> and C<false>.

C<JSON::Boolean> does not represent C<null>.

C<JSON::null> returns C<undef>.

C<JSON> makes L<JSON::XS::Boolean> and L<JSON::PP::Boolean> is-a relation to L<JSON::Boolean>.

=item function JSON::Number is obsoleted.

C<JSON::Number> is now needless because JSON::XS and JSON::PP have round-trip integrity.

=item JSONRPC modules are deleted.

Perl implementation of JSON-RPC protocol - C<JSONRPC>, C<JSONRPC::Transport::HTTP> and C<Apache::JSONRPC> are deleted in this distribution. Instead of them, there is L<JSON::RPC> which supports JSON-RPC protocol version 1.1.

=back

=head2 Transition ways from 1.xx to 2.xx.

You should set C<support_by_pp> mode firstly, because it is always successful for the below codes even with JSON::XS.

use JSON -support_by_pp;

=over

=item Exported jsonToObj (simple)
from_json($json_text);

=item Exported objToJson (simple)
to_json($perl_scalar);

=item Exported jsonToObj (advanced)
$flags = {allow_barekey => 1, allow_singlequote => 1};
from_json($json_text, $flags);

equivalent to:

$JSON::BareKey = 1;
$JSON::QuotApos = 1;
jsonToObj($json_text);

=item Exported objToJson (advanced)
$flags = {allow_blessed => 1, allow_barekey => 1};
to_json($perl_scalar, $flags);

equivalent to:

$JSON::BareKey = 1;
objToJson($perl_scalar);

=item jsonToObj as object method

$json->decode($json_text);

=item objToJson as object method

$json->encode($perl_scalar);

=item new method with parameters

The C<new> method in 2.x takes any parameters no longer. You can set parameters instead;

$json = JSON->new->pretty;

=item $JSON::Pretty, $JSON::Indent, $JSON::Delimiter

If C<indent> is enable, that means C<$JSON::Pretty> flag set. And C<$JSON::Delimiter> was substituted by C<space_before> and C<space_after>.

In conclusion:
$json->indent->space_before->space_after;

Equivalent to:

$json->pretty;

To change indent length, use C<indent_length>.

(Only with JSON::PP, if C<-support_by_pp> is not used.)

$json->pretty->indent_length(2)->encode($perl_scalar);

=item $JSON::BareKey

(Only with JSON::PP, if C<-support_by_pp> is not used.)

$JSON::BareKey->allow_barekey->decode($json_text)

=item $JSON::ConvBlessed

use C<-convert_blessed_universally>. See to L:convert_blessed>.

=item $JSON::QuotApos

(Only with JSON::PP, if C<-support_by_pp> is not used.)

$JSON::QuotApos->allow_singlequote->decode($json_text)

=item $JSON::SingleQuote

Disable. C<JSON> does not make such a invalid JSON string any longer.

=item $JSON::KeySort

$JSON::KeySort->canonical->encode($perl_scalar)

This is the ascii sort.

If you want to use with your own sort routine, check the C<sort_by> method.

(Only with JSON::PP, even if C<-support_by_pp> is used currently.)

$JSON::KeySort->sort_by($sort_routine_ref)->encode($perl_scalar)

$JSON::KeySort->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

Can't access C<$a> and C<$b> but C<$JSON::PP::a> and C<$JSON::PP::b>.
=item $JSON::SkipInvalid

$json->allow_unknown

=item $JSON::AUTOCONVERT

Needless. C<JSON> backend modules have the round-trip integrity.

=item $JSON::UTF8

Needless because C<JSON> (JSON::XS/JSON::PP) sets the UTF8 flag on properly.

# With UTF8-flagged strings

$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true
$json_text = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = "" . chr(1000) . ";"; # UTF8-flagged

$perl_scalar = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true
$perl_scalar = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'

See to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL>.

=item $JSON::UnMapping

Disable. See to L<MAPPING>.

=item $JSON::SelfConvert

This option was deleted.
Instead of it, if a given blessed object has the C<TO_JSON> method, C<TO_JSON> will be executed with C<convert_blessed>.

$json->convert_blessed->encode($blessed_hashref_or_arrayref)
# if need, call allow_blessed
Note that it was C<toJson> in old version, but now not C<toJson> but C<TO_JSON>.

=head1 TODO

=head1 THREADS

No test with JSON::PP. If with JSON::XS, See to L<JSON::XS/THREADS>.

=head1 BUGS

Please report bugs relevant to C<JSON> to E<lt>makamaka[at]cpan.orgE<gt>.

=head1 SEE ALSO

Most of the document is copied and modified from JSON::XS doc.

L<JSON::XS>, L<JSON::PP>

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

JSON::XS was written by Marc Lehmann <schmor[p|p]schorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

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use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "-----------------------------\n";
print ">-decode()\n";
print "-----------------------------\n";

$result = timethese( -$wanttime,
    { 'JSON::PP' => sub { $pp->decode( $json ) },
      'JSON::XS' => sub { $xs->decode( $json ) },
    },
    'none' );
cmpthese( $result );

print "-----------------------------\n";
SYNOPSIS

bench_decode.pl json-file
# or
bench_decode.pl json-file minimum-time

DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

AUTHOR

makamaka

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=cut

---

abstract: 'JSON (JavaScript Object Notation) encoder/decoder'
author:
- 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: JSON
no_index:
directory:
  - t
- inc
recommends:
  JSON::XS: 2.34
requires:
  Test::More: 0
resources:
  repository: https://github.com/makamaka/JSON
  version: 2.61

Found in path(s):
  * /opt/cola/permits/1138400534_1614282218.45/0/libjson-perl-2-61-orig-1-tar-gz/JSON-2.61/META.yml
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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=cut

Found in path(s):
  * /opt/cola/permits/1138400534_1614282218.45/0/libjson-perl-2-61-orig-1-tar-gz/JSON-2.61/lib/JSON/backportPP/Compat5006.pm
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl

use strict;
use warnings;
use Benchmark qw( cmpthese timethese );
our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\\n", JSON::PP->VERSION );
printf( "JSON::XS %s\\n", JSON::XS->VERSION );

print "-----------------------------------\n"
print "->encode()\n"
print "-----------------------------------\n";
$result = timethese( -$wanttime,
    { 'JSON::PP' => sub { $pp->encode( $perl ) },
      'JSON::XS' => sub { $xs->encode( $perl ) },
    },
    'none'
);
cmpthese( $result );

print "-----------------------------------\n"
print "->pretty->canonical->encode()\n"
print "-----------------------------------\n";

$result = timethese( -$wanttime,
    { 'JSON::PP' => sub { $pp->pretty->canonical->encode( $perl ) },
      'JSON::XS' => sub { $xs->pretty->canonical->encode( $perl ) },
    },
    'none'
);
bench_encode.pl json-file
# or
bench_encode.pl json-file minimum-time

L<JSON::PP> and L<JSON::XS> encoding benchmark.

makamaka

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Version 2.1, February 1999

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structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Any executables containing that work also fall under Section 6,
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.3241 pciutils 3.1.10 4.el6

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
* http://www.hypermall.com/ *
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?) *
* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes. *
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE) *
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. */
Open Source Used In Tetration 3.5.1  35648

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
    * 1) skb->destructor / skb->atm.recycle_buffer
    * combined, allow nicstar_free_rx_skb to be called to
    * recycle large data buffers
    * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.

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* M. Welsh, 6 July 1996

*/

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Version 2, June 1991

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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single nxt200x frontend driver.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@page
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BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$ (SHELL) -ec "$ (GEN_DEPS.c) $< \"
| sed \"s/\(^.*/\).o \|^\.o $@ : /g\" > $@; \

---

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## Versioned libraries rules

$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.3262 openssl 1.0.1f-1ubuntu2.27

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This is the Debian prepackaged version of the GNU gettext utilities.
GNU gettext was written by Ulrich Drepper <drepper@gnu.org>.
emacs po-mode was written by Franois Pinard <pinard@iro.umontreal.ca>.

This package was first created by Erick Branderhorst <branderh@debian.org>,
and is currently maintained by Santiago Vila <sanvila@debian.org>.

This release has been built using the sources from:

http://ftp.gnu.org/pub/gnu/gettext/gettext-0.18.3.1.tar.gz

The changes were fairly minimal, and consisted solely of adding
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas
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1.3272 metrics-graphite 3.1.5

1.3273 kmod 27
1.3273.1 Available under license :

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier$Renewer

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org.apache.hadoop.mapreduce.security.token.delegation.DelegationTokenIdentifier
org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier

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* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/task/package-info.java
* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/task/ResourceBundles.java
* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/counters/LimitExceededException.java
* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/FileSystemCounter.java
* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/TaskTrackerInfo.java
1.3286 python 3.5.4

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
+----------------+--------------+------------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2          | 1995-1999  | CNRI       | yes             |
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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-------------------------------

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--------

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of
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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
   Samuel Neves (supercop/crypto_auth/siphash24/little)
   djb (supercop/crypto_auth/siphash24/little2)
   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

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cfuhash
-------

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libmpdec
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property.

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1.3295 govmomi 0.18.0
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*/

package license

import (  
"context"  
"flag"  
"github.com/vmware/govmomi/govc/cli"  
"github.com/vmware/govmomi/govc/flags"  
"github.com/vmware/govmomi/license"  
"github.com/vmware/govmomi/vim25/types"  
)

type assign struct {  
*flags.ClientFlag  
*flags.OutputFlag  
*flags.HostSystemFlag  
*flags.ClusterFlag  
  
  name string  
  remove bool  
}  

func init() {  
cli.Register("license.assign", &assign{ })  
}  

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {  
cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
cmd.ClientFlag.Register(ctx, f)  
  
cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
cmd.OutputFlag.Register(ctx, f)  
  
cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)  
cmd.HostSystemFlag.Register(ctx, f)  
  
cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)  
cmd.ClusterFlag.Register(ctx, f)  
  
  f.StringVar(&cmd.name, "name", ", "Display name")  
f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }

    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    // Assign the license...

    return nil
}
var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}

package license

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    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
}
m := license.NewManager(client)
result, err := m.List(ctx)
if err != nil {
    return err
}

if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))

/*

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    "fmt"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/govc/vim25/types"
)

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{})}
func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
        case "HostAgent":
            addFunc = m.Update
        case "VirtualCenter":
            addFunc = m.Add
        default:
            return fmt.Errorf("unsupported ApiType: %s", t)
    }

    return addFunc(ctx, "KEY", nil)
}
result := make(licenseOutput, 0)
for _, v := range f.Args() {
license, err := addFunc(ctx, v, nil)
if err != nil {
    return err
}
result = append(result, license)
}
return cmd.WriteResult(licenseOutput(result))
}

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/

package simulator

import (
    "context"
    "reflect"
    "testing"
func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()

defer m.Remove()

er := m.Create()
    if err != nil {
        t.Fatal(err)
    }

d := m.Service.NewServer()
    defer d.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    am, err := lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal(err)
    }

    la, err := am.QueryAssigned(ctx, "enoent")
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 0 {
        t.Errorf("unexpected license")
    }

    finder := find.NewFinder(c.Client, false)
    hosts, err := finder.HostSystemList(ctx, "/...")
    if err != nil {
        t.Fatal(err)
    }

    host := hosts[0].Reference().Value
for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
    t.Fatal("invalid license")
}
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()
    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    _, err = lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal("expected error")
    }

    la, err := lm.List(ctx)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("invalid license")
    }
}
t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
m := ESX()

defer m.Remove()

er := m.Create()
if err != nil {
t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := make(map[string]string){"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
t.Fatal(err)
}

if info.LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
t.Fatalf("expect label to be %s:%s; got %s:%s", info.Labels[0].Key, info.Labels[0].Value)
if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) eqaul to %d; got %d", len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got %s:%s", la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         }},
        {Key: "feature",
         Value: types.KeyValue{
             Key: "dvs",
             Value: "vSphere Distributed Switch",
         }}
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }
}
// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type:  "HostSystem",
            Value: req.EntityId,
        }
        if Map.Get(id) == nil {
            return body
        }
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}
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*/
package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
}

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", ", featureUsage")
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
if err != nil {
    return err
}

var result license.InfoList
m := license.NewManager(client)
for _, v := range f.Args() {
    license, err := m.Decode(ctx, v)
    if err != nil {
        return err
    }
    result = append(result, license)
}

result = append(result, license)

if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

# People who can (and typically have) contributed to this repository.
#
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#

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*/
package license
import (

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type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {

}
req := types.DecodeLicense{
    This: m.Reference(),
    LicenseKey: key,
}

res, err := methods.DecodeLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}

return res.Returnval, nil

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This: m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This: m.Reference(),
        LicenseKey: key,
        Labels: mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }
    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
if p.Key != "feature" {
    continue
}

kv, ok := p.Value.(types.KeyValue)

if !ok {
    continue
}

lf := parseLicenseFeature(kv.Key)

if lf.name == feature.name && lf.level >= feature.level {
    return true
}

return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

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/

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/

package license

import (  
    "context"  
    "flag"  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"
)

type remove struct {  
    *flags.ClientFlag  
    *flags.OutputFlag
    }

func init() {  
    cli.Register("license.remove", &remove{ })
    }

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {  
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
    cmd.ClientFlag.Register(ctx, f)
    
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
    cmd.OutputFlag.Register(ctx, f)
func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    return nil
}
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*/
package license

import (  
    "context"  
    "flag"  
    "fmt"  
    "io"  
    "os"  
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {  
    *flags.ClientFlag  
    *flags.OutputFlag

    id string
}

func init() {  
    cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {  
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
    cmd.ClientFlag.Register(ctx, f)
    
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
    cmd.OutputFlag.Register(ctx, f)
    
    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {  
    if err := cmd.ClientFlag.Process(ctx); err != nil {  
        return err
    }
    
    if err := cmd.OutputFlag.Process(ctx); err != nil {  
        return err
    }
    
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {

client, err := cmd.Client()
if err != nil {
    return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
    return err
}

return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s", v.EntityId)
        fmt.Fprintf(tw, "%s", v.Scope)
        fmt.Fprintf(tw, "%s", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"
    
    "github.com/vmware/govmomi/vim25/types"
)

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*/
type licenseOutput [types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.LicenseKey)
        fmt.Fprintf(tw, "%s	", v.EditionKey)
        fmt.Fprintf(tw, "%d	", v.Used)
        fmt.Fprintf(tw, "%d	", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

#!/usr/bin/env bats
load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if ![ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
        skip "requires evaluation license"
    fi
}

get_key() {
    jq ".[].select(.LicenseKey == "$1")"
}

get_property() {
    jq -r ".Properties[].select(.Key == "$1") .Value"
}

@test "license.add" {
    esx_env
    verify_evaluation

    run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
    assert_success

    # Expect to see an entry for both the first and the second key
    assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
    assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}
@test "license.remove" {
  esx_env
  verify_evaluation
  run govc license.remove -json 00000-00000-00000-00000-00001
  assert_success
}

@test "license.ls" {
  vcsim_env
  verify_evaluation
  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$output | jq -r ".Name")"
}

@test "license.decode" {
  esx_env
  verify_evaluation
  key=00000-00000-00000-00000-00000
  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

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package license

import (
    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}
func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([types.LicenseAssignmentManagerLicenseAssignment, error]) {
    req := types.QueryAssignedLicenses{
        This:  m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:  m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:  m.Reference(),
        Entity: id,
        LicenseKey: key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return &res.Returnval, nil
}

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1.3300 netty-handler 4.1.26.Final

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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
  jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
  jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
  jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
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* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1078478143_1597306907.03/0/netty-handler-4-1-26-final-sources-jar/io/netty/handler/ssl/Ocsp/package-info.java
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when it starts in an interactive mode:

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Public License instead of this License.
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?
Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name
the technique Jimenez's MLAA in the config options of Mesa. We did that
just to allow them to solve license issues. This exception should be for
the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of
license complications. Hope current one is good for Fedora, if not
please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing
Fedora (a popular distribution of Linux) for license compliance and I
came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following
   statement:
   *
   */Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
   Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
   *
   * Only for use in the Mesa project, this point 2 is filled by naming the
* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.3310 elasticsearch-cli 6.7.0

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1.3311 perl-extutils-parsexs 3.18-3.el7

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=head1 SEE ALSO

L<ExtUtils::Typemaps>

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* /opt/cola/permits/1129936846_1612408085.09/0/perl-ExtUtils-ParseXS-3.18-3.el7-1.src.rpm-cosi-expand-archive-QEL7NjNE/ExtUtils-ParseXS-3.18.tar.gz-cosi-expand-archive-BIlmcOtX/ExtUtils-ParseXS-3.18/lib/ExtUtils/Typemaps/OutputMap.pm
* /opt/cola/permits/1129936846_1612408085.09/0/perl-ExtUtils-ParseXS-3.18-3.el7-1.src.rpm-cosi-expand-archive-QEL7NjNE/ExtUtils-ParseXS-3.18.tar.gz-cosi-expand-archive-BIlmcOtX/ExtUtils-ParseXS-3.18/lib/ExtUtils/Typemaps>Type.pm

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--
abstract: 'converts Perl XS code into C code'
author:
  - 'Ken Williams <ken@mathforum.org>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 6.46
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: ExtUtils-ParseXS
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Cwd: 0
  DynaLoader: 0
  Exporter: 0
  ExtUtils::CBuilder: 0
  ExtUtils::MakeMaker: 6.46
  File::Basename: 0
  File::Spec: 0
  Symbol: 0
  Test::More: 0.47
resources:
  bugtracker: http://rt.perl.org/rt3/
  repository: git://perl5.git.perl.org/gitroot/perl.git
version: 3.18

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* /opt/cola/permits/1129936846_1612408085.09/0/perl-ExtUtils-ParseXS-3.18-3.el7-1.src.rpm-cosi-expand-archive-QEL7NjNE/ExtUtils-ParseXS-3.18.tar.gz-cosi-expand-archive-BIImcOtX/ExtUtils-ParseXS-3.18/META.yml
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* /opt/cola/permits/1129936846_1612408085.09/0/perl-ExtUtils-ParseXS-3.18-3.el7-1.src.rpm-cosi-expand-archive-QEL7NjNE/perl-ExtUtils-ParseXS.spec
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NAME

ExtUtils::Typemaps::Cmd - Quick commands for handling typemaps

SYNOPSIS

From XS:

```
INCLUDE_COMMAND: $^X -MExtUtils::Typemaps::Cmd -e "print embeddable_typemap(q{Excommunicated})"
```

Loads C<ExtUtils::Typemaps::Excommunicated>, instantiates an object, and dumps it as an embeddable typemap for use directly in your XS file.

DESCRIPTION

This is a helper module for L<ExtUtils::Typemaps> for quick one-liners, specifically for inclusion of shared typemaps that live on CPAN into an XS file (see SYNOPSIS).

For this reason, the following functions are exported by default:

EXPORTED FUNCTIONS

embeddable_typemap

Given a list of identifiers, C<embeddable_typemap> tries to load typemaps from a file of the given name(s), or from a module that is an C<ExtUtils::Typemaps> subclass.

Returns a string representation of the merged typemaps that can be included verbatim into XS. Example:

```
print embeddable_typemap(
    "Excommunicated", "ExtUtils::Typemaps::Basic", "/typemap"
);
```

This will try to load a module C<ExtUtils::Typemaps::Excommunicated> and use it as an C<ExtUtils::Typemaps> subclass. If that fails, it'll try loading C<Excommunicated> as a module, if that fails, it'll try to read a file called F<Excommunicated>. It'll work similarly for the second argument, but the third will be loaded as a file first.

After loading all typemap files or modules, it will merge them in the specified order and dump the result as an embeddable typemap.

SEE ALSO
=head1 AUTHOR

Steffen Mueller C<<smueller@cpan.org>>

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ExtUtils::ParseXS - converts Perl XS code into C code

cut

=head1 SYNOPSIS

use ExtUtils::ParseXS qw(process_file);

process_file( filename => 'foo.xs' );

process_file( filename => 'foo.xs',
              output => 'bar.c',
              'C++' => 1,
              typemap => 'path/to/typemap',
              hiertype => 1,
              except => 1,
              prototypes => 1,
              versioncheck => 1,
              linenumbers => 1,
              optimize => 1,
              prototypes => 1,
              );

cut

=head1 DESCRIPTION
C<ExtUtils::ParseXS> will compile XS code into C code by embedding the constructs necessary to let C functions manipulate Perl values and creates the glue necessary to let Perl access those functions. The compiler uses typemaps to determine how to map C function parameters and variables to Perl values.

The compiler will search for typemap files called I<typemap>. It will use the following search path to find default typemaps, with the rightmost typemap taking precedence.

../../../typemap:../../typemap:../typemap:typemap

=head1 EXPORT

None by default. C<process_file()> may be exported upon request.

=head1 FUNCTIONS

=over 4

=item process_file()

This function processes an XS file and sends output to a C file. Named parameters control how the processing is done. The following parameters are accepted:

=over 4

=item B<C++>

Adds C<extern "C"> to the C code. Default is false.

=item B<hiertype>

Retains C<::> in type names so that C++ hierarchical types can be mapped. Default is false.

=item B<except>

Adds exception handling stubs to the C code. Default is false.

=item B<typemap>

Indicates that a user-supplied typemap should take precedence over the default typemaps. A single typemap may be specified as a string, or multiple typemaps can be specified in an array reference, with the last typemap having the highest precedence.
Generates prototype code for all xsubs. Default is false.

=item B<versioncheck>

Makes sure at run time that the object file (derived from the C<.xs> file) and the C<.pm> files have the same version number. Default is true.

=item B<linenumbers>

Adds C<#line> directives to the C output so error messages will look like they came from the original XS file. Default is true.

=item B<optimize>

Enables certain optimizations. The only optimization that is currently affected is the use of I<target>s by the output C code (see L<perlguts>). Not optimizing may significantly slow down the generated code, but this is the way B<xsubpp> of 5.005 and earlier operated. Default is to optimize.

=item B<inout>

Enable recognition of C<IN>, C<OUT_LIST> and C<INOUT_LIST> declarations. Default is true.

=item B<argtypes>

Enable recognition of ANSI-like descriptions of function signature. Default is true.

=item B<s>

I<Maintainer note:> I have no clue what this does. Strips function prefixes?

=back

=item errors()

This function returns the number of [a certain kind of] errors encountered during processing of the XS file.

=back

=head1 AUTHOR

Based on xsubpp code, written by Larry Wall.
Maintained by:

=over 4
=item *

Ken Williams, <ken@mathforum.org>

=item *

David Golden, <dagolden@cpan.org>

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James Keenan, <jkeenan@cpan.org>

=item *

Steffen Mueller, <smueller@cpan.org>

=back

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=head1 SEE ALSO

L<perl>, ExtUtils::xsubpp, ExtUtils::MakeMaker, L<perlxs>, L<perlxstut>.

=cut

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NAME

ExtUtils::ParseXS - converts Perl XS code into C code
SYNOPSIS

use ExtUtils::ParseXS qw(process_file);

process_file( filename => 'foo.xs' );

process_file( filename => 'foo.xs',
              output => 'bar.c',
              'C++' => 1,
              typemap => 'path/to/typemap',
              hiertype => 1,
              except => 1,
              prototypes => 1,
              versioncheck => 1,
              linenumbers => 1,
              optimize => 1,
              prototypes => 1,
            );

DESCRIPTION

"ExtUtils::ParseXS" will compile XS code into C code by embedding the
constructs necessary to let C functions manipulate Perl values and
creates the glue necessary to let Perl access those functions. The
compiler uses typemaps to determine how to map C function parameters and
variables to Perl values.

The compiler will search for typemap files called "typemap". It will use
the following search path to find default typemaps, with the rightmost
typemap taking precedence.

       ../../../typemap:../../typemap:../typemap:typemap

EXPORT

None by default. "process_file()" may be exported upon request.

FUNCTIONS

process_file()

This function processes an XS file and sends output to a C file.
Named parameters control how the processing is done. The following
parameters are accepted:

C++ Adds "extern "C"" to the C code. Default is false.

hiertype
   Retains "::" in type names so that C++ hierarchical types can be
   mapped. Default is false.

except
   Adds exception handling stubs to the C code. Default is false.
typemap
  Indicates that a user-supplied typemap should take precedence over the default typemaps. A single typemap may be specified as a string, or multiple typemaps can be specified in an array reference, with the last typemap having the highest precedence.

prototypes
  Generates prototype code for all xsubs. Default is false.

versioncheck
  Makes sure at run time that the object file (derived from the ".xs" file) and the ".pm" files have the same version number. Default is true.

linenumbers
  Adds "#line" directives to the C output so error messages will look like they came from the original XS file. Default is true.

optimize
  Enables certain optimizations. The only optimization that is currently affected is the use of *target*s by the output C code (see perl guts). Not optimizing may significantly slow down the generated code, but this is the way xsubpp of 5.005 and earlier operated. Default is to optimize.

inout
  Enable recognition of "IN", "OUT_LIST" and "INOUT_LIST" declarations. Default is true.

argtypes
  Enable recognition of ANSI-like descriptions of function signature. Default is true.

errors()
  This function returns the number of [a certain kind of] errors encountered during processing of the XS file.

AUTHOR
  Based on xsubpp code, written by Larry Wall.

  Maintained by:

*  Ken Williams, <ken@mathforum.org>
* David Golden, <dagolden@cpan.org>

* James Keenan, <jkeenan@cpan.org>

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SEE ALSO
perl, ExtUtils::xsubpp, ExtUtils::MakeMaker, perlxs, perlxstut.

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=head1 CAVEATS

Inherits some evil code from C<ExtUtils::ParseXS>.

=head1 SEE ALSO

The parser is heavily inspired from the one in L<ExtUtils::ParseXS>.

For details on typemaps: L<perlxstut>, L<perlxs>.

=head1 AUTHOR

Steffen Mueller C<<smueller@cpan.org>>

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Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/bootstrap/ChannelFactory.java
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1.jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1.jar/io/netty/channel/pool/ChannelPool.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1.jar/io/netty/channel/pool/ChannelPoolMap.java
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1.jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1.jar/io/netty/channel/pool/MaxBytesRecvByteBufAllocator.java
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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  jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/embedded/EmbeddedChannelId.java
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  jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/SelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/ChannelOutboundInvoker.java
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  jar/io/netty/channel/socket/DuplexChannel.java
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  jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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  jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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*/opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/socket/nio/NioChannelOption.java
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
*
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
The simplest and recommended approach is to use member variables:
* <pre>
public interface Message {
    // your methods here
}
*
public class DataServerHandler extends @link SimpleChannelInboundHandler&lt;Message&gt; {
    
    private boolean loggedIn;
    
    @Override
    public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        } ...
    }
    ...
    }
    </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}@{Channel} { public void initChannel({@link Channel} channel) { channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>); } } 
* </pre>

* <h4>Using {@link AttributeKey}s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message { 
* // your methods here 
* } 
* 
* [{code @Sharable} public class DataServerHandler extends {@link SimpleChannelInboundHandler}@{Message} { private final {@link AttributeKey}@{Boolean} auth = 
* {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth"); 
* } 
* } 
* [
* } 
* </pre>
* Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends `@link ChannelInitializer`<`@link Channel`> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    `@code @Override`
    public void initChannel(`@link Channel` channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

* `<h4>The `@code @Sharable` annotation</h4>`

* In the example above which used an `@link AttributeKey`, you might have noticed the `@code @Sharable` annotation.  
* If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.  
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.  
* This annotation is provided for documentation purpose, just like `<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

* `<h3>Additional resources worth reading</h3>`

* Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/META-INF/maven/io.netty/netty-transport/pom.xml

1.3321 yum-metadata-parser 1.1.2 16.el6
1.3321.1 Available under license:
From RPM File Metadata:GPLv2

1.3322 libmnl 1.0.3 7.el7
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.3331 tftp-hpa 0.49
1.3331.1 Available under license:
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT} %{_bindir}
mkdir -p ${RPM_BUILD_ROOT} %{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT} %{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ SBINDIR=%{_sbindir} MANDIR=%{_mandir} | install
install -m755 -d ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/tftp
%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt
* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%%post is needed by server, not client. Add %%%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1135382553_1613503782.64/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec.in
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf %{RPM_BUILD_ROOT}
mkdir -p %{RPM_BUILD_ROOT}/%{_bindir}
mkdir -p %{RPM_BUILD_ROOT}/%{_mandir}/man{1,8}
mkdir -p %{RPM_BUILD_ROOT}/%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ 
    SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ 
install
install -m755 -d %{RPM_BUILD_ROOT}/%{_sysconfdir}/xinetd.d/ %{RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd %{RPM_BUILD_ROOT}/%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || : 

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
  * Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.
  
  * Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt
  
  * Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
  
  * Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)
  
  * Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
  
  * Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers
  
  * Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt
  
  * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32
  
  * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30
* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

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* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
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  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
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  - updated tftp client to 0.17 stable (#19640),
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* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
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- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
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- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
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- correct group.

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- change user from root to nobody

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- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

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- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 22 2000 Cristian Gafton <gafton@redhat.com>
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- update to 0.16.

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- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1135382553_1613503782.64/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftp.spec
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*   http://www.openbsd.org/.                                                   *
*                                                                              *
*                                                                              */

Found in path(s):
* /opt/cola/permits/1135382553_1613503782.64/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c
* /opt/cola/permits/1135382553_1613503782.64/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
No license file was found, but licenses were detected in source scan.
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* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1135382553_1613503782.64/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/config.h

No license file was found, but licenses were detected in source scan.

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." SUCH DAMAGE.
."----------------------------------------------------------------------- */

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* /opt/cola/permits/1135382553_1613503782.64/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/MCONFIG.in
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```
* /opt/cola/permits/1135382553_1613503782.64/0/tftp-hpa-0-49-tftp-hpa-0.49/tftp-hpa-0.49/tftp/hpa-0.49/tftp-hpa-0.49/tftp/tftp.1.in

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Jackson is a high-performance, Free/Open Source JSON processing library. 
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has 
been in development since 2007.  
It is currently developed by a community of developers, as well as supported 
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Julian Seward, Cambridge, UK.
jseward@bzip.org
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## Commands to generate dependency files 
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS) 
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS) 

## Flags for position independent code 
SHAREDLIBCFLAGS = -fPIC 
SHAREDLIBCXXFLAGS = -fPIC 
SHAREDLIBCPPFLAGS = -DPIC 

## Additional flags when building libraries and with threads 
THREADSCPPFLAGS = -D_REENTRANT 
LIBCPPFLAGS = 

## Compiler switch to embed a runtime search path 
LD_RPATH= 
LD_RPATH_PRE=-Wl,-rpath, 

## Compiler switch to embed a library name 
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET)) 

## Shared library options 
LD_SOOPTIONS= -Wl,-Bsymbolic 

## Shared object suffix 
SO = so 
## Non-shared intermediate object suffix 
STATIC_O = ao 

## Compilation rules 
%.$(STATIC_O): $(srcdir)/%.c 
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $< 
%.o: $(srcdir)/%.c 
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $< 

%.$(STATIC_O): $(srcdir)/%.cpp 
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $< 
%.o: $(srcdir)/%.cpp 
```

---

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$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$\$(SHELL) -ec \$\$(GEN_DEPS.c) $< \\ | sed \'\"s/(\$\\*)\(\.o\)\[\:\]*/\1.o $@ : /g\" > $@; \\ [ -s $@ \] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$\$(SHELL) -ec \$\$(GEN_DEPS.cc) $< \\ | sed \'\"s/(\$\\*)\(\.o\)\[\:\]*/\1.o $@ : /g\" > $@; \\ [ -s $@ \] || rm -f $@

## Versioned libraries rules
%.\$(SO).\$(SO_TARGET_VERSION_MAJOR): %.\$(SO).\$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.\$(SO): %.\$(SO).\$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.\$(SO).\$(SO_TARGET_VERSION) $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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Jean-loup Gailly      Mark Adler
jloup@gzip.org        madler@alumni.caltech.edu
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1.3349 mod-perl 2.0.8+httpd24-r1449661-6ubuntu2.1

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1.3351 fcgi 0.74-8.el7
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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Hamcrest Core 1.3
xmlenc Library 0.52

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1.3358 gcc-defaults 4.9.2-2

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1.3364 python-ipy 0.75-6.el7
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1.3365 perl-filter 1.49-3.el7

1.3366 libfile-listing-perl 6.04-1

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=head1 NAME

File::Listing - parse directory listing

=head1 SYNOPSIS

use File::Listing qw(parse_dir);
$ENV{LANG} = "C";  # dates in non-English locales not supported
for (parse_dir('ls -l')) {
    ($name, $type, $size, $mtime, $mode) = @$_;
    next if $type ne 'f'; # plain file
    #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz");
$dir = parse_dir('
$LISTING', '+0000');

=head1 DESCRIPTION

This module exports a single function called parse_dir(), which can be used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse.
It can be a scalar, a reference to an array of directory lines or a
glob representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps
in the listing. If this value is undefined, then the local time zone is
assumed.

The third parameter is the type of listing to assume. Currently
supported formats are 'unix', 'apache' and 'dosftp'. The default
value is 'unix'. Ideally, the listing type should be determined
automatically.

The fourth parameter specifies how unparseable lines should be treated.
Values can be 'ignore', 'warn' or a code reference. Warn means that
the perl warn() function will be called. If a code reference is
passed, then this routine will be called and the return value from it
will be incorporated in the listing. The default is 'ignore'.

Only the first parameter is mandatory.

The return value from parse_dir() is a list of directory entries. In
a scalar context the return value is a reference to the list. The
directory entries are represented by an array consisting of [ $filename, $filetype, $filesize, $filetime, $filemode ]. The
$filetype value is one of the letters 'f', 'd', 'l' or '?'. The
$filetime value is the seconds since Jan 1, 1970. The
$filemode is a bitmask like the mode returned by stat().

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NAME
File::Listing - parse directory listing

SYNOPSIS
use File::Listing qw(parse_dir);
$ENV{LANG} = "C"; # dates in non-English locales not supported
for (parse_dir("ls -l")) {
    ($name, $type, $size, $mtime, $mode) = @$_;
    next if $type ne 'f'; # plain file
    #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz|");
$dir = parse_dir("LISTING, '+0000'");

DESCRIPTION
This module exports a single function called parse_dir(), which can be used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse. It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.

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1.3367 cronie 1.4.4 12.el6
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The End

1.3380 python-argparse 1.2.1-3.rhel6

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes
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1.3384 grok 6.7.0

1.3385 linux-kernel 2.6.32-754.35.1.el6.centos.plus

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That's all there is to it!
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul
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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for many bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

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for his work on the budget drivers, the demux code,
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for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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for the support of the Fujitsu-Siemens Activity budget DVB-S

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for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the Igd330x frontend driver, and various bugfixes

Michael Krufky <mkruflky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
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QLogic Linux FC-FCoE Driver

This program includes a device driver for Linux 3.x.
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1.3387 libjpeg-turbo 1.3.0-0ubuntu2.1
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 * jdmrgext.c
 *
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* 
* This file contains code for merged upsampling/color conversion.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmrgeext.c

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; jsimdext.inc - common declarations
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
; 
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
; 
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; 
; [TAB8]

; System-dependent configurations

#ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32
%ifdef __YASM_VER__
%define SEG_TEXT .text  align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text  align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64
; ----(nasm -fwin64 -DWIN64 ...)--
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text  align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text  align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32
; ----(nasm -fobj -DOBJ32 ...)--
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text  align=16 public use32 class=CODE
%define SEG_CONST .data  align=16 public use32 class=DATA

%elifdef ELF
; ----(nasm -felf[64] -DELF ...)--
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%endif
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; ELF supports PIC
%define EXTN(name) name			; foo() -> foo

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -faoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL __MACHO_PIC__; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------
%ifndef __x86_64__
%define POINTER        qword    ; general pointer type
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT    QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER        dword    ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT    DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT            dword    ; signed integer type
%define SIZEOF_INT     SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT        DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32           dword    ; IEEE754 single
%define SIZEOF_FP32    SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT       DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD         qword    ; int64  (MMX register)
%define SIZEOF_MMWORD  SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT     QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD        ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT    QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE    1    ; sizeof(BYTE)
%define SIZEOF_WORD     2    ; sizeof(WORD)
%define SIZEOF_DWORD    4    ; sizeof(DWORD)
%define SIZEOF_QWORD    8    ; sizeof(QWORD)
%define SIZEOF_OWORD   16    ; sizeof(OWORD)

%define BYTE_BIT       8    ; CHAR_BIT in C
%define WORD_BIT       16    ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT      32    ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT      64    ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT      128   ; sizeof(OWORD)*BYTE_BIT

;-------------------------------------------------------------------------------
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name)  _ +%+ name; foo() -> _foo
%endif

; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif
%ifdef PIC ; -------------------------------------------
%ifidn GOT_SYMBOL,_MACHO_PIC_ ; --------------------
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION	SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx resister.
call %geteip
addecx, byte (%ref - $)
jmpshort %adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifidni %1,ebx ; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%ref)
%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%ref)
%ref:mov%1, ecx
%endif ; (%1 == ebx)
pop ebp
%endmacro
%else; GOT_SYMBOL != _MACHO_PIC_ ----------------
%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL

call%%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%%geteip:
mov%1, POINTER [esp]
ret
%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ----------------
%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC -------------------------------
%define GOTOFF(got,sym) (sym)
%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif;  PIC -------------------------------

; --------------------------------------------------------------------------
; Align the next instruction on {2,4,8,16...}-byte boundary.
; ";.align n,,m" in GNU as
; 
; %define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n) (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%bs:times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1) & FILLB($,%1) \ 
    db 0x90 ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \ 
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \ 
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \ 
    db 0x8D,0xAD,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \ 
    db 0x8D,0x6C,0x25 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \ 
    db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \ 
    db 0x8B,0xED ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \ 
    db 0x90 ; nop
%endmacro

; Align the next data on [2,4,8,16,...]-byte boundary.
;
%imacro alignx 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; -------------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimcfg.inc"

; -----------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimdext.inc
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 *
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 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cderror.h
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 *
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 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdjpgcom.c
No license file was found, but licenses were detected in source scan.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemsys.h
No license file was found, but licenses were detected in source scan.

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemsys.h
No license file was found, but licenses were detected in source scan.

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemsys.h
No license file was found, but licenses were detected in source scan.
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in GIF format.
* 
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,
* the ability to read GIF files has been removed from the IJG distribution.
* Sorry about that.
*****************************************************************************
* 
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
* 
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
* 
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
/*/ 

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/transupp.h
No license file was found, but licenses were detected in source scan.

1.3.0
[1] 'make test' now works properly on FreeBSD, and it no longer requires the md5sum executable to be present on other Un*x platforms.

[2] Overhauled the packaging system:
-- To avoid conflict with vendor-supplied libjpeg-turbo packages, the official RPMs and DEBs for libjpeg-turbo have been renamed to "libjpeg-turbo-official".
-- The TurboJPEG libraries are now located under /opt/libjpeg-turbo in the official Linux and Mac packages, to avoid conflict with vendor-supplied packages and also to streamline the packaging system.
-- Release packages are now created with the directory structure defined by the configure variables "prefix", "bindir", "libdir", etc. (Un*x) or by the CMAKE_INSTALL_PREFIX variable (Windows.) The exception is that the docs are always located under the system default documentation directory on Un*x and Mac systems, and on Windows, the TurboJPEG DLL is always located in the Windows system directory.
-- To avoid confusion, official libjpeg-turbo packages on Linux/Unix platforms (except for Mac) will always install the 32-bit libraries in /opt/libjpeg-turbo/lib32 and the 64-bit libraries in /opt/libjpeg-turbo/lib64.
-- Fixed an issue whereby, in some cases, the libjpeg-turbo executables on Un*x systems were not properly linking with the shared libraries installed by the same package.
-- Fixed an issue whereby building the "installer" target on Windows when WITH_JAVA=1 would fail if the TurboJPEG JAR had not been previously built.
-- Building the "install" target on Windows now installs files into the same places that the installer does.

[3] Fixed a Huffman encoder bug that prevented I/O suspension from working properly.

1.2.90 (1.3 beta1)

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers have a policy against accepting any library that isn't versioned.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG
image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.
1.2.1

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.
1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.
[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.
[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).
1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct
results when the JPEG quality is >= 98 and the fast integer forward DCT is
used. Thus, the non-SIMD quantization function is now used for those cases,
and libjpeg-turbo should now produce identical output to libjpeg v6b in all
cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for
JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically
use the slow integer forward DCT when generating JPEG images of quality 96 or
greater. This reduces compression performance by as much as 15% for these
high-quality images but is necessary to ensure that the images are perceptually
lossless. It also ensures that the library can avoid the performance pitfall
created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.

[4] Fixed visual artifacts in grayscale JPEG compression caused by a typo in
the RGB-to-luminance lookup tables.

[5] The Windows distribution packages now include the libjpeg run-time programs
(cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and
tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
=================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See
README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the
TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing
JPEG images.
[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659. Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2009-2012 D. R. Commander. All Rights Reserved.
 * *
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 * *
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 * - Redistributions in binary form must reproduce the above copyright notice,
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/tjbench.c
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/tjunittest.c
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/turbojpeg.c
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/TJBench.java

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/License.rtf
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.
The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Fröhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info

/*
 * jdapistd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
  1.3.0/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 * virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 * backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemmgr.c

No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpegcomp.h

No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfss2int.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jimmxint.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfmmxint.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2int.asm

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/*
 * jccolor.c
 *
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 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jccolor.c

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/*...

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/md5/md5.h

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License: BSD-style
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/libjpeg-turbo.spec.in

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/*
* cdjpeg.h
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains common declarations for the sample applications
cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
* jdcoefct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmaster.c
No license file was found, but licenses were detected in source scan.

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*
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/turbojpeg.h
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains upsampling routines.
* 
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
* 
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdsample.c
No license file was found, but licenses were detected in source scan.

/
* jfdctfst.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/,

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmorecfg.h
No license file was found, but licenses were detected in source scan.

*/,
* transupp.c
*/

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
* /

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/transupp.c
No license file was found, but licenses were detected in source scan.

*/,
* jsimd_arm.c
*/

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
* /

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
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 *
 * This file contains Huffman entropy encoding routines.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least

* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.

* An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007373602_1589175158.460/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007373602_1589175158.460/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemnobs.c
No license file was found, but licenses were detected in source scan.

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 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        try {
            System.loadLibrary("turbojpeg");
        } catch (java.lang.UnsatisfiedLinkError e) {
            String os = System.getProperty("os.name").toLowerCase();
            if (os.indexOf("mac") >= 0) {
                try {
                    System.load("%{__libdir}/libturbojpeg.jnilib");
                } catch (java.lang.UnsatisfiedLinkError e2) {
                    System.load("/usr/lib/libturbojpeg.jnilib");
                }
            } else {
                try {
                    System.load("%{__libdir}/libturbojpeg.so");
                } catch (java.lang.UnsatisfiedLinkError e3) {
                    String libdir = "%{__libdir}";
                    if (libdir.equals("/opt/libjpeg-turbo/lib64")) {
                        System.load("/opt/libjpeg-turbo/lib32/libturbojpeg.so");
                    } else if (libdir.equals("/opt/libjpeg-turbo/lib32")) {
                        System.load("/opt/libjpeg-turbo/lib64/libturbojpeg.so");
                    } else {
                        throw e3;
                    }
                }
            }
        }
    }

    Found in path(s):
    * /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJLoader.java.tmpl
    No license file was found, but licenses were detected in source scan.
}

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcapimin.c
No license file was found, but licenses were detected in source scan.

/ *
* jdcolext.c
*
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* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdcolext.c
No license file was found, but licenses were detected in source scan.

/ *
* rdswitch.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
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* For conditions of distribution and use, see the accompanying README file.
This file contains routines to process some of cjpeg's more complicated command-line switches. Switches processed here are:

- `-qtables file` Read quantization tables from text file
- `-scans file` Read scan script from text file
- `-quality N,[N,...]` Set quality ratings
- `-qslots N,[N,...]` Set component quantization table selectors
- `-sample HxV,[HxV,...]` Set component sampling factors

Found in path(s):

```
/opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdswitch.c
```

No license file was found, but licenses were detected in source scan.

--

This file contains library routines for transcoding decompression, that is, reading raw DCT coefficient arrays from an input JPEG file. The routines in jdapimin.c will also be needed by a transcoder.

Found in path(s):

```
/opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdtrans.c
```

No license file was found, but licenses were detected in source scan.

--

This file contains a slow-but-accurate integer implementation of the forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on an algorithm described in

C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT"
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jfdctint.c
No license file was found, but licenses were detected in source scan.

/**
 * jcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcoefct.c
No license file was found, but licenses were detected in source scan.

/**
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * jcpreptct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* j dctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman ossman@cendio.se for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcdctmgr.c

No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcapistd.c

No license file was found, but licenses were detected in source scan.

/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
TurboJPEG Java Wrapper
========================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

The TurboJPEG Java Wrapper will look for the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) in the system library
paths or in any paths specified in LD_LIBRARY_PATH (Un*x), DYLD_LIBRARY_PATH (Mac), or PATH (Windows.) Failing this, on Un*x and Mac systems, the wrapper will look for the JNI library under the library directory configured when libjpeg-turbo was built. If that library directory is /opt/libjpeg-turbo/lib32, then /opt/libjpeg-turbo/lib64 is also searched, and vice versa.

If you installed the JNI library into another directory, then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java, or manipulate LD_LIBRARY_PATH, DYLD_LIBRARY_PATH, or PATH to include the directory containing the JNI library.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/README

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*   contributors may be used to endorse or promote products derived from this
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* *
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* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
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* POSSIBILITY OF SUCH DAMAGE.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcstest.c
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
This file contains a very simple stand-alone application that inserts user-supplied text as a COM (comment) marker in a JFIF file. This may be useful as an example of the minimum logic needed to parse JPEG markers.

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 *
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 * contributors may be used to endorse or promote products derived from this
 * software without specific prior written permission.
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 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
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 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpeg/turbo/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpeg/turbo/TJCustomFilter.java
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpeg/turbo/TJTransformer.java

No license file was found, but licenses were detected in source scan.

/*
 * MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD5 Message-Digest
* Algorithm" in all material mentioning or referencing this software
* or this function.
*
* License is also granted to make and use derivative works provided
* that such works are identified as "derived from the RSA Data
* Security, Inc. MD5 Message-Digest Algorithm" in all material
* mentioning or referencing the derived work.
*
* RSA Data Security, Inc. makes no representations concerning either
* the merchantability of this software or the suitability of this
* software for any particular purpose. It is provided "as is"
* without express or implied warranty of any kind.
*
* These notices must be retained in any copies of any part of this
* documentation and/or software.
*
* This code is the same as the code published by RSA Inc. It has been
* edited for clarity and style only.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/md5/md5.c
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/*/  
jcmaster.c
*/

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*/  
jcmarker.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcmarker.c
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; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
;%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples

;%define ROW(n,b,s)((b)+(n)*(s))
;%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

;%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
;%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
;%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; -------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdct.inc
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*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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******************************************************************************
** Using libjpeg-turbo
******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

======================
Installation Directory
======================

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=================================
Replacing libjpeg at Run Time
=========================================

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
  real  0m0.392s
  user  0m0.074s
  sys   0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
  real  0m0.109s
  user  0m0.029s
  sys   0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
manifests with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of
libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Unix or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

- Wl,-static -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

===================================
Colorspace Extensions
===================================

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

JCS_EXT_RGB   /* red/green/blue */
JCS_EXT_RGBX  /* red/green/blue/x */
JCS_EXT_BGR   /* blue/green/red */
JCS_EXT_BGRX  /* blue/green/red/x */
JCS_EXT_XBGR  /* x/blue/green/red */
JCS_EXT_XRGB  /* x/red/green/blue */
JCS_EXT_RGBA  /* red/green/blue/alpha */
JCS_EXT_BGRA  /* blue/green/red/alpha */
JCS_EXT_ABGR  /* alpha/blue/green/red */
JCS_EXT_ARGB  /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

#ifdef JCS_EXTENSIONS
At run time, attempting to use these extensions with a libjpeg implementation
that does not support them will result in a "Bogus input colorspace" error.
Applications can trap this error in order to test whether run-time support is
available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the
X byte is undefined, and in order to ensure the best performance, libjpeg-turbo
can set that byte to whatever value it wishes. If an application expects the X
byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA,
JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants
are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace
extensions at compile time with:

#ifdef JCS_ALPHA_EXTENSIONS

cjtest.c, located in the libjpeg-turbo source tree, demonstrates how to check
for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the
compression and decompression structures. Unfortunately, due to the exposed
nature of those structures, extending them also necessitated breaking backward
ABI compatibility with previous libjpeg releases. Thus, programs that were
built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is
based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not
as widely used as v6b, enough programs (including a few Linux distros) made
the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs
in libjpeg-turbo. It should be noted, however, that this feature was added
primarily so that applications that had already been compiled to use libjpeg
v7+ could take advantage of accelerated baseline JPEG encoding/decoding
without recompiling. libjpeg-turbo does not claim to support all of the
libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all
cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an
argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version
of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs
that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The
following section describes which libjpeg v7+ features are supported and which
aren't.

Support for libjpeg v7 and v8 Features:

========================================
Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.
-- libjpeg: SmartScale
  cinfo.block_size is silently ignored.
  SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
  cinfo.do_fancy_downsampling is silently ignored.
  This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
  This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
  This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
----------------------
libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

===================================== In-Memory Source/Destination Managers
=====================================  
By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and
jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8.
-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

**********************************************************************************************************************************************
**     Performance Pitfalls
**********************************************************************************************************************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar.gz/libjpeg-turbo-
1.3.0/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jchuff.h
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
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 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
IJJ JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJJ JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number). A "block" is an 8x8 group of samples or coefficients. An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections:
the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.
The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space
conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it’s not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man’s object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an “object”.

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An “object” is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the
module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastd.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.
1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
             |         |         |
------------------ controller ------------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.
*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
|   |-- Preprocessing controller --|
|   |                              |-- Downsampling
Main controller --|
|                  |                  |-- Forward DCT, quantize
|                  |-- Coefficient controller --|
|                  |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vp sample rows afterwards (remember Vp differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data.
This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override
individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
   |                            |-- Dequantize, Inverse DCT
Main controller --|
   |                               |-- Upsampling
   |-- Postprocessing controller --|   |-- Colorspace conversion
   |                               |-- Color quantization
   |                               |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.
* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into...
input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.
The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "/((value) & 0xFF)" on signed-char machines and "/((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This
choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of
  the rows. This simplifies edge expansion/compression, since we can work
  in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many
  machines.
* Arrays with more than 64K total elements can be supported even on machines
  where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
  without extra copying. This trick allows some speedups in smoothing steps
  that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the
traditional layout in which the components of a pixel are stored together.
This simplifies coding of modules that work on each component independently,
because they don't need to know how many components there are. Furthermore,
we can read or write each component to a temporary file independently, which
is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the
first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF;a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2];an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY;ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE;ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress
counters” which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.
*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.

Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block.}

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and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)
The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent “front end” (jmemmgr.c) and a “back end” that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won’t free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via

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jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/structure.txt
No license file was found, but licenses were detected in source scan.

/*
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
*   each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
*   of each desired color. Such a file can be extracted from an
*   ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/

/* Portions of this code are based on the PBMPLUS library, which is:
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* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.

* This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jidctflt.c

No license file was found, but licenses were detected in source scan.

/*
* jsimddct.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jsimddct.h

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  * POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/md5/md5cmp.c

No license file was found, but licenses were detected in source scan.

/ *
  * rdbmp.c
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1994-1996, Thomas G. Lane.
  * Modified 2009-2010 by Guido Vollbeding.
  * Modifications:
  * Modified 2011 by Siarhei Siamashka.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to read input images in Microsoft "BMP"
  * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
  * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
  * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
  * Also, we don't support RLE-compressed files.
  *
  * These routines may need modification for non-Unix environments or
  * specialized applications. As they stand, they assume input from
  * an ordinary stdio stream. They further assume that reading begins
  * at the start of the file; start_input may need work if the
  * user interface has already read some data (e.g., to determine that
  * the file is indeed BMP format).
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpe.c, and partly to djpe.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
* djpe.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpe [options] inputfile outputfile
* djpe [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/djpeg.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd_arm_neon.S
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jctrans.c
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/*
* jdatadst-tj.c
*
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* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatadst-tj.c
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/*
* jversion.h
*
* This file was part of the Independent JPEG Group's software:
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* For conditions of distribution and use, see the accompanying README file.
* This file contains software version identification.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jversion.h
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jcomapi.c

* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface routines that are used for both compression and decompression.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcomapi.c
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wrppm.c

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMLPLUS library is NOT required to compile this software (but it is highly useful as a set of PPM image manipulation programs).
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrppm.c
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/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cdjpeg.c
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/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdapimin.c
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* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmerss2.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcclrs2-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jccolss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdcolss2.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdsammmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2red.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgrass2.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmrgss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimdcpu.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdc1rmmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgrmmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsamss2.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2flt-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmermmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcqnts2i-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcqntsse.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcclrss2.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2flt.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfsseflt.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcqnts2f.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcqnt3dn.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcsamss2.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcqnts2f-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcsammmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jccolss2.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmrgmmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgrymmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/ji3dnflt.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdcolss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcqntmmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jccolmmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jccrmmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmgmmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgrymmx.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/ji3dnfllt.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdcolss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcqntmmx.asm

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/*
 * jchuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines for progressive JPEG.
*
* We do not support output suspension in this module, since the library
* currently does not allow multiple-scan files to be written with output
* suspension.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcphuff.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd_none.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains stubs for when there is no SIMD support available.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jsimd_none.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/
Open Source Used In Tetration 3.5.1  37088

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 * *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatasrc.c

No license file was found, but licenses were detected in source scan.

/ *
* jcarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcarith.c

No license file was found, but licenses were detected in source scan.

/ *
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.                *
**************************************************************************
* These routines may need modification for non-Unix environments or    *
* specialized applications. As they stand, they assume output to      *
* an ordinary stdio stream.                                         */
/*
/* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
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* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processing; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */
/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/
/*
*/
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/*
*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/doc/html/jquery.js
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# - Redistributions in binary form must reproduce the above copyright notice,
# - this list of conditions and the following disclaimer in the documentation
# - Neither the name of the libjpeg-turbo Project nor the names of its
# software without specific prior written permission.
/*
 * jdmerge.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 *
 * \[ R = Y + K1 \cdot Cr \]
 * \[ G = Y + K2 \cdot Cb + K3 \cdot Cr \]
 * \[ B = Y + K4 \cdot Cb \]
 * only the \( Y \) term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 *
 * This file currently provides implementations for the following cases:
 * \( YCbCr \rightarrow \) RGB color conversion only.
 * Sampling ratios of 2h1v or 2h2v.
 * No scaling needed at upsample time.
 * Corner-aligned (non-CCIR601) sampling alignment.
 * Other special cases could be added, but in most applications these are
 * the only common cases. (For uncommon cases we fall back on the more
 * general code in jdsample.c and jdcolor.c.)
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/uninstall.in

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*
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* *
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* and/or other materials provided with the distribution.
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* contributors may be used to endorse or promote products derived from this
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* *
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* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/TJUnitTest.java

No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
* *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*/ 
* cjpeg.c 
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin(stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jdmarker.c 
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmarker.c
No license file was found, but licenses were detected in source scan.

/ *
* jquant1.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jquant1.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; [TAB8]
; pseudo-resisters to make ordering of RGB configurable

%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jquant2.c
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**IJG JPEG LIBRARY: CODING RULES**

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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

```c
/*
 *  Block comments in this style.
 */
```

We indent statements in K&R style, e.g.,

```c
if (test) {
    then-part;
} else {
    else-part;
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,

```
multi_word_name (not multiWordName).
```

Preprocessor symbols and enum constants are similar but upper case (MULTI WORD NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool ‘ansi2knr.c’ (courtesy of Ghostscript).

ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
```
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator
is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore,
we want it to be reentrant so that it can be used by applications that process
multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc;
   pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static
   wherever possible. (Note that our method-based calling conventions help this
a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpec.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/coderules.txt

No license file was found, but licenses were detected in source scan.

/
* jidctfst.c
 *
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 *
 */

* jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains portable arithmetic entropy decoding routines for JPEG
 * Both sequential and progressive modes are supported in this single module.
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 *
 */

* jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines for progressive JPEG.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdphuff.c
No license file was found, but licenses were detected in source scan.

/ *
* wrrle.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
* 
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrrle.c
No license file was found, but licenses were detected in source scan.

/ *
* jdhuff.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains Huffman entropy decoding routines.
* 
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/
//
/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.
libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/deb-control.tmpl

No license file was found, but licenses were detected in source scan.

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1.3.0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdct.h

No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligttenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one

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* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jidctint.c

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reasons for developing this free software was to help force convergence on

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/README

No license file was found, but licenses were detected in source scan.

/
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This file documents the configuration options that are required to
customize the JPEG software for a particular system.

The actual configuration options for a particular installation are stored
in jconfig.h. On many machines, jconfig.h can be generated automatically
or copied from one of the "canned" jconfig files that we supply. But if
you need to generate a jconfig.h file by hand, this file tells you how.

DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
EDIT A COPY NAMED JCONF.H.

These symbols indicate the properties of your machine or compiler.
#define the symbol if yes, #undef it if no.

Does your compiler support function prototypes?
(If not, you also need to use ansi2knr, see install.txt)
#define HAVE_PROTOTYPES

Does your compiler support the declaration "unsigned char"?
How about "unsigned short"?
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

Define "void" as "char" if your compiler doesn't know about type void.
NOTE: be sure to define void such that "void *" represents the most general
pointer type, e.g., that returned by malloc().
#define void char *

#define const *

Define this if an ordinary "char" type is unsigned.
If you're not sure, leaving it undefined will work at some cost in speed.
If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
#undef CHAR_IS_UNSIGNED

Define this if your system has an ANSI-conforming <stddef.h> file.
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, *
* but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the *
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in *
* <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, *
* unless you are using a large-data memory model or 80386 flat-memory mode. *
* On less brain-damaged CPUs this symbol must not be defined. *
* (Defining this symbol causes large data structures to be referenced through *
* "far" pointers and to be allocated with a special version of malloc.) */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less *
* than the first 15 characters. */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to *
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI *
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, *
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you *
* actually get "missing structure definition" warnings or errors while *
* compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#ifdef _WIN32
#ifdef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif
/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

*/
/* By default, we open image files with fopen(..."rb") or fopen(..."wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jconfig.txt
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
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Data formats
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Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call.
It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by 
BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------
Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

   A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

   You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.
You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().
3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults()`; then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. `jpeg_start_compress(...)`;

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.
Typical code:

`jpeg_start_compress(&cinfo, TRUE);`

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   `jpeg_write_scanlines(...);`

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
```
jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you
should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See “Compressed data handling”, below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see “Error handling” for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.
Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE *infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to...
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put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.
Note that all default values are set by each call to jpeg_read_header().
If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression.
You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- output_width: image width and height, as scaled
- output_height
- out_color_components: # of color components in out_color_space
- output_components: # of color components returned per pixel
- colormap: the selected colormap, if any
- actual_number_of_colors: number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);
If using the stdio source manager, don’t forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don’t need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.
The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjjpeg.c or djjpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend
you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`
Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
                const unsigned int *basic_table,
                int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLs]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLs]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);

/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.
int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------
Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width
Width and height of image
JDIMENSION image_height
int num_components
Number of color components

J_COLOR_SPACE jpeg_color_space
Colorspace of image

boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen

UINT8 JFIF_major_version
Version information from JFIF marker

UINT8 JFIF_minor_version

UINT8 density_unit
Resolution data from JFIF marker

UINT16 X_density

UINT16 Y_density

boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the
returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default
based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different
colorspace. For example, set it to JCS_GRAYSCALE to get grayscale
output from a color file. (This is useful for previewing: grayscale
output is faster than full color since the color components need not
be processed.) Note that not all possible color space transforms are
currently implemented; you may need to extend jdcolor.c if you want an
unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the only supported scaling ratios
are M/8 with all M from 1 to 16, or any reduced fraction thereof (such
as 1/2, 3/4, etc.) (The library design allows for arbitrary
scaling ratios but this is not likely to be implemented any time soon.)
Smaller scaling ratios permit significantly faster decoding since
fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE,
meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color
map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color
map for the image. This usually looks a lot better than the one-size-
fits-all colormap that is used otherwise. Default is TRUE. Ignored
when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented
only in the single-pass, standard-colormap case. If you ask for
ordered dither when two_pass_quantize is TRUE or when you supply
an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next
two fields. colormap is set to NULL by jpeg_read_header(). The application
can supply a color map by setting colormap non-NULL and setting
actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress()
selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same
as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE,
a faster but sloppier method is used. Default is TRUE. The visual
impact of the sloppier method is often very small.
boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()
to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map
index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
(An output buffer larger than rec_outbuf_height lines is OK, but won't
provide any material speed improvement over that height.)

Special color spaces
---------------------
The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <--> YCbCr and CMYK <--> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:
- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

**error_exit (j_common_ptr cinfo)**
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

**format_message (j_common_ptr cinfo, char * buffer)**
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

\[
\begin{align*}
\text{JOCTET} \; * \; \text{next\_output\_byte}; & \quad /* \Rightarrow \text{next byte to write in buffer} */ \\
\text{size\_t} \; \text{free\_in\_buffer}; & \quad /* \# \text{of byte spaces remaining in buffer} */
\end{align*}
\]

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- **init_destination (j_compress_ptr cinfo)**
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- **empty_output_buffer (j_compress_ptr cinfo)**
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped.
free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmaker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.
For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
---------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.
Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a
convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.
The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of
a multi-scan file during jpeg_start_decompress(), so that it can provide a
final decoded image. (Here “multi-scan” means either progressive or
multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending
input with version 5 of the IJG library will need to be modified to check
for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library’s
buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a
coefficient buffer, from which it can be read out as many times as desired.
This mode is typically used for incremental display of progressive JPEG files,
but it can be used with any JPEG file. Each scan of a progressive JPEG file
adds more data (more detail) to the buffered image. The application can
display in lockstep with the source file (one display pass per input scan),
or it can allow input processing to outrun display processing. By making
input and display processing run independently, it is possible for the
application to adapt progressive display to a wide range of data transmission
rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional
level of looping. The application can choose how many output passes to make
and how to display each pass.
The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)
The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or `JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.
Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.
A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.
To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data..
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

---

Open Source Used In Tetration 3.5.1 37171
if (cinfo.quant_tbl_ptrs[n] == NULL)
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
  /* Qtable[] is desired quantization table, in natural array order */
  quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
  /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
  huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
  /* symbols[] is the list of Huffman symbols, in code-length order */
  huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you
not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read. The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.  
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;  
if you try to set a small nonzero length limit on these types, the library  
will silently force the length up to the minimum it wants.  (But you can set  
a zero length limit to prevent them from being saved at all.)  Also, in a  
16-bit environment, the maximum length limit may be constrained to less than  
65533 by malloc() limitations.  It is therefore best not to assume that the  
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling  
jpeg_set_marker_processor().  A marker processor routine must have the  
signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it  
in cinfo->unread_marker.  At the time of call, the marker proper has been  
read from the data source module.  The processor routine is responsible for  
reading the marker length word and the remaining parameter bytes, if any.  
Return TRUE to indicate success.  (FALSE should be returned only if you are  
using a suspending data source and it tells you to suspend.  See the standard  
marker processors in jdmarker.c for appropriate coding methods if you need to  
use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to  
recognize JFIF and Adobe markers if you want colorspace recognition to occur  
properly.  We recommend copying and extending the default processors if you  
want to do that.  (A better idea is to save these marker types for later  
examination by calling jpeg_save_markers(); that method doesn't interfere  
with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive  
--- if you call one it overrides any previous call to the other, for the  
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.  
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG  
compressor, or to receive raw downsampled data from the decompressor.  The  
library supports this requirement by allowing the application to write or  
read raw data, bypassing the normal preprocessing or postprocessing steps.  
The interface is different from the standard one and is somewhat harder to
If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().)
  This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will
be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don’t forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
\[ \text{cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row} \]
\[ \text{cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image} \]
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is
\[ \text{cinfo->comp_info[0].h_samp_factor = 2 for Y} \]
\[ \text{cinfo->comp_info[0].v_samp_factor = 2} \]
\[ \text{cinfo->comp_info[1].h_samp_factor = 1 for Cb} \]
\[ \text{cinfo->comp_info[1].v_samp_factor = 1} \]
\[ \text{cinfo->comp_info[2].h_samp_factor = 1 for Cr} \]
\[ \text{cinfo->comp_info[2].v_samp_factor = 1} \]
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least \texttt{max_v_samp_factor*DCTSIZE} scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().
When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is:

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppressTables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
--------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

---------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works
with "strip" buffers that are as wide as the image but just a few rows high.
Some operating modes (eg, two-pass color quantization) require full-image
buffers. Such buffers are treated as "virtual arrays": only the current strip
need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no
temporary files are used; virtual arrays are simply malloc()'d. Images bigger
than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors
and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting.
Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage
---------
Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options

A number of compile-time options are available by modifying jmorecfg.h.
The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?
Portability considerations

--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:
- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (e.g., about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
* jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jsimd.h
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/*
* jccolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jccolext.c

1.3388 python-pygments 1.1.1-1.el6
1.3388.1 Available under license:

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1.3389 zlib 1.2.5

1.3389.1 Available under license :
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.3390 dbus-python 1.2.0 2build2

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**1.3391 libxvmc 1.0.10 1.el7**

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**1.3392 opus 1.0.2 6.el7**

**1.3393 lz4 1.7.5 2.el7**

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Upstream-Name: liblz4
Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

Files: *
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/* Legal characters in GLSL are:
 */
/* Identifier characters:
 */
/*     Letters a-z
*     Letters A-Z
*     Underscore
*     Numbers 0-9
*/
/* Punctuation:
 */
/*     Period, plus, dash, slash, asterisk, percent, angled brackets,
*     square brackets, parentheses, braces, caret, vertical bar,
*     ampersand, tilde, equals, exclamation point, colon, semicolon,
*     comma, and question mark
*/
/* Special:
 */
/*     Number sign (as used in preprocessor)
*/
/*     Backslash just before newline as line continuation
*/
/* White space:
 */
/*     Space, horizontal tab, vertical tab, form feed, carriage-return,
*     and line-feed.
*/
/* [GLSL Language Specficiation 4.30.6, section 3.1]
*/
/* In this file, we test each of these in turn as follows:  
*/
 /* Identifier characters: All pass through unchanged 
* Punctuation: All pass through unchanged 
* Special: Empty directive replaced with blank line 
* Line continuation merges two lines, then a blank line 
* Whitespace: 4 horizontal space characters each replaced with space 
* 2 newline characters each replaced with a newline 
*/
*/
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
_
0123456789

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
On 01/08/2013 12:39 PM, Jorge Jimenez wrote:

> Hi Tom,
> >
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

  Specifically, if this is done as part of documentation included with
  Mesa, is that sufficient to meet clause 2 even if the Mesa config option
  is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name
the technique Jimenez's MLAA in the config options of Mesa. We did that
just to allow them to solve license issues. This exception should be for
the Mesa project, and any project using Mesa, like Fedora.
We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
  *
  * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
  *
  * Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,
Tom Callaway
Fedora Legal

Fedora Project

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>

<div class="content">
<h1>Disclaimer</h1>

Mesa is a 3-D graphics library with an API which is very similar to that of a href="https://www.opengl.org/"OpenGL/a>.*
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```

---
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</p>

<h1>Mesa Component Licenses</h1>
<pre>
<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
<tr>
<td>C11 thread</td>
<td>include/c11/threads*.h</td>
<td>Boost (permissive)</td>
</tr>
</tbody>
</table>
</pre>

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</p>

</div>
</body>
</html>

1.3395 fipscheck 1.4.1-14.el6

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.3400 joni 2.1.6
1.3401 debconf 1.5.51ubuntu2

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1.3402 kerberos 1.12+dfsg-2ubuntu5.4
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lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
```
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_canon_name.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_compare_name.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_context_time.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_delete_sec_context.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_name.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_status.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dup_name.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_exp_sec_context.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_export_name.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_glue.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_name.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_sec_context.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_init_sec_context.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_initialize.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_context.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_cred.c</span>
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lib/gssapi/class/mechglue/g_inquire_names.c

lib/gssapi/class/mechglue/g_process_context.c

lib/gssapi/class/mechglue/g_rel_buffer.c

lib/gssapi/class/mechglue/g_rel_cred.c

lib/gssapi/class/mechglue/g_rel_name.c

lib/gssapi/class/mechglue/g_rel_oid_set.c

lib/gssapi/class/mechglue/g_seal.c

lib/gssapi/class/mechglue/g_sign.c

lib/gssapi/class/mechglue/g_store_cred.c

lib/gssapi/class/mechglue/g_unseal.c

lib/gssapi/class/mechglue/g_userok.c

lib/gssapi/class/mechglue/g_verify.c

lib/gssapi/class/mechglue/mglueP.h

lib/gssapi/class/mechglue/oid_ops.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.c`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.c`
- `kprop/kproplog.c`

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/krb5_err.et
   kprop/kpropd_rpc.c
   kprop/kpropllog.c

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/* .*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*-* */
/*

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
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lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break
# DB2 licenses start with '/*-' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* ([^ \]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*? */', '', line)
        line = line.strip()

        if not in_comment and '/' in line:
            (line, sep, comment_part) = line.partition('/**')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
            is_license = check_comment(comment, fname, comment_starts_at,
                                         code_seen, nonlicense_seen)
            nonlicense_seen = nonlicense_seen or not is_license
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
            is_license = check_comment(comment, fname, comment_starts_at,
                                         code_seen, nonlicense_seen)
            nonlicense_seen = nonlicense_seen or not is_license
            in_comment = False
elif line.strip() != "":
    code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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   :globally:
   :maxdepth: 1

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<signature of Ty Coon>, 1 April 1990
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@enumerate 0
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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*m4/ax_func_which_gethostbyname_r.m4

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## Source Code
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* https://github.com/eclipse-ee4j/glassfish-ha-api
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* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
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 */
```
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsRequest;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetClusterMetricsRequestPBImpl extends GetClusterMetricsRequest {
    GetClusterMetricsRequestProto proto = GetClusterMetricsRequestProto.getDefaultInstance();
    GetClusterMetricsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public GetClusterMetricsRequestPBImpl() {
        builder = GetClusterMetricsRequestProto.newBuilder();
    }

    public GetClusterMetricsRequestPBImpl(GetClusterMetricsRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetClusterMetricsRequestProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
public String toString() {
    return TextFormat.shortDebugString(proto);
}
}
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 */
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.EnumSet;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import static org.apache.hadoop.yarn.proto.YarnServiceProtos.GetClusterNodesRequestProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetClusterNodesRequestPBImpl extends GetClusterNodesRequest {

    GetClusterNodesRequestProto proto = GetClusterNodesRequestProto.getDefaultInstance();
    GetClusterNodesRequestProto.Builder builder = null;
    boolean viaProto = false;

    private EnumSet<NodeState> states = null;

    GetClusterNodesRequestBuilder pbBuilder = pbProto.toBuilder();
    pbBuilder.setNodesStates(ViaProto)
    builder = pbProto.toBuilder();
    builder.setNodesStates(ViaProto)
    pbProto = pbBuilder.build();
    proto = pbProto.toProto();
    states = EnumSet.of(NodeState.nnToNodeState(pbProto.getNodesStates()))
    for (NodeStateProto nodeStateProto : pbProto.getNodesStatesList())
        states.add(NodeState.valueOf(nodeStateProto.getNodeState()));
    proto = GetClusterNodesProto.newBuilder().setNodesStates(states).build();
    pbProto = proto.toBuilder();
    pbProto.setNodesStates(states);
```java
public GetClusterNodesRequestPBImpl() {
    builder = GetClusterNodesRequestProto.newBuilder();
}

public GetClusterNodesRequestPBImpl(GetClusterNodesRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetClusterNodesRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public EnumSet<NodeState> getNodeStates() {
    initNodeStates();
    return this.states;
}

@Override
public void setNodeStates(final EnumSet<NodeState> states) {
    initNodeStates();
    this.states.clear();
    if (states == null) {
        return;
    }
    this.states.addAll(states);
}

private void mergeLocalToProto() {
    if (viaProto) {
        maybeInitBuilder();
    }
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetClusterNodesRequestProto.newBuilder(proto);
    }
    viaProto = false;
}
```
private void mergeLocalToBuilder() {
    if (this.states != null) {
        maybeInitBuilder();
        builder.clearNodeStates();
        Iterable<NodeStateProto> iterable = new Iterable<NodeStateProto>() {
            @Override
            public Iterator<NodeStateProto> iterator() {
                return new Iterator<NodeStateProto>() {
                    Iterator<NodeState> iter = states.iterator();
                    @Override
                    public boolean hasNext() {
                        return iter.hasNext();
                    }
                    @Override
                    public NodeStateProto next() {
                        return ProtoUtils.convertToProtoFormat(iter.next());
                    }
                    @Override
                    public void remove() {
                        throw new UnsupportedOperationException();
                    }
                };
            }
            @Override
            public void remove() {
                throw new UnsupportedOperationException();
            }
        };
        builder.addAllNodeStates(iterable);
    }
}

private void initNodeStates() {
    if (this.states != null) {
        return;
    }
    GetClusterNodesRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<NodeStateProto> list = p.getNodeStatesList();
    this.states = EnumSet.noneOf(NodeState.class);
    for (NodeStateProto c : list) {
        this.states.add(ProtoUtils.convertFromProtoFormat(c));
    }
}
@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterRequest;
import org.apache.hadoop.yarn.api.records.FinalApplicationStatus;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import org.apache.hadoop.yarn.proto.YarnProtos.FinalApplicationStatusProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class FinishApplicationMasterRequestPBImpl extends FinishApplicationMasterRequest {
    FinishApplicationMasterRequestProto proto = FinishApplicationMasterRequestProto.getDefaultInstance();
    FinishApplicationMasterRequestProto.Builder builder = null;
    boolean viaProto = false;

    public FinishApplicationMasterRequestPBImpl() {
        builder = FinishApplicationMasterRequestProto.newBuilder();
    }

    public FinishApplicationMasterRequestPBImpl(FinishApplicationMasterRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public FinishApplicationMasterRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }

    private void mergeLocalToBuilder() {
        // Merge local fields to the builder
    }
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = FinishApplicationMasterRequestProto.newBuilder(proto);    
    }
    viaProto = false;
}

@Override
public String getDiagnostics() {
    FinishApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getDiagnostics();
}

@Override
public void setDiagnostics(String diagnostics) {
    maybeInitBuilder();
    if (diagnostics == null) {
        builder.clearDiagnostics();
        return;
    }
    builder.setDiagnostics(diagnostics);
}

@Override
public String getTrackingUrl() {
    FinishApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getTrackingUrl();
}

@Override
public void setTrackingUrl(String url) {
    maybeInitBuilder();
    if (url == null) {
        builder.clearTrackingUrl();
        return;
    }
    builder.setTrackingUrl(url);
}
@Override
public FinalApplicationStatus getFinalApplicationStatus() {
    FinishApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasFinalApplicationStatus()) {
        return null;
    }
    return convertFromProtoFormat(p.getFinalApplicationStatus());
}

@Override
public void setFinalApplicationStatus(FinalApplicationStatus finalState) {
    maybeInitBuilder();
    if (finalState == null) {
        builder.clearFinalApplicationStatus();
        return;
    }
    builder.setFinalApplicationStatus(convertToProtoFormat(finalState));
}

private FinalApplicationStatus convertFromProtoFormat(FinalApplicationStatusProto s) {
    return ProtoUtils.convertFromProtoFormat(s);
}

private FinalApplicationStatusProto convertToProtoFormat(FinalApplicationStatus s) {
    return ProtoUtils.convertToProtoFormat(s);
}

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 */
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetClusterNodesResponsePBImpl extends GetClusterNodesResponse {
    GetClusterNodesResponseProto proto =
    GetClusterNodesResponseProto.getDefaultInstance();
    GetClusterNodesResponseProto.Builder builder = null;
    boolean viaProto = false;

    List<NodeReport> nodeManagerInfoList;

    public GetClusterNodesResponsePBImpl() {
        builder = GetClusterNodesResponseProto.newBuilder();
    }

    public GetClusterNodesResponsePBImpl(GetClusterNodesResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    @Override
    public List<NodeReport> getNodeReports() {
        initLocalNodeManagerInfosList();
        return this.nodeManagerInfoList;
    }

    @Override
    public void setNodeReports(List<NodeReport> nodeManagers) {
        if (nodeManagers == null) {
            builder.clearNodeReports();
        }
    }
}
this.nodeManagerInfoList = nodeManagers;
}

public GetClusterNodesResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.nodeManagerInfoList != null) {
        addLocalNodeManagerInfosToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetClusterNodesResponseProto.newBuilder(proto);
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetClusterNodesResponseProto.newBuilder(proto);
    }
}
viaProto = false;
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private void initLocalNodeManagerInfosList() {
    if (this.nodeManagerInfoList != null) {
        return;
    }
    GetClusterNodesResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<NodeReportProto> list = p.getNodeReportsList();
    nodeManagerInfoList = new ArrayList<NodeReport>();
    for (NodeReportProto a : list) {
        nodeManagerInfoList.add(convertFromProtoFormat(a));
    }
}

private void addLocalNodeManagerInfosToProto() {
    maybeInitBuilder();
    builder.clearNodeReports();
    if (nodeManagerInfoList == null)
        return;
    Iterable<NodeReportProto> iterable = new Iterable<NodeReportProto>() {
        @Override
        public Iterator<NodeReportProto> iterator() {
            return new Iterator<NodeReportProto>() {
                Iterator<NodeReport> iter = nodeManagerInfoList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public NodeReportProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
}
private NodeReportPBImpl convertFromProtoFormat(NodeReportProto p) {
    return new NodeReportPBImpl(p);
}

private NodeReportProto convertToProtoFormat(NodeReport t) {
    return ((NodeReportPBImpl)t).getProto();
}

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 */

class NodeReportPBImpl {
    private NodeReportProto proto;
    public NodeReportPBImpl(NodeReportProto proto) {
        this.proto = proto;
    }
    public NodeReportProto getProto() {
        return proto;
    }
    public String getNodeName() {
        return proto.getNodeName();
    }
    public int getUsedMemory() {
        return proto.getUsedMemory();
    }
    public int getUsedCpu() {
        return proto.getUsedCpu();
    }
    public int getReservedMemory() {
        return proto.getReservedMemory();
    }
    public int getReservedCpu() {
        return proto.getReservedCpu();
    }
    public ContainerReportPBImpl getContainerReport(int containerId) {
        return new ContainerReportPBImpl(proto.getContainerReport(containerId));
    }
}

import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.SerializedException;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import org.apache.hadoop.yarn.api.records.impl.pb.SerializedExceptionPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.SerializedExceptionProto;
import org.apache.hadoop.yarn.proto.YarnProtos.StringBytesMapProto;

import com.google.protobuf.ByteString;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StartContainersResponsePBImpl extends StartContainersResponse {
  StartContainersResponseProto proto = StartContainersResponseProto.getDefaultInstance();
  StartContainersResponseProto.Builder builder = null;
  boolean viaProto = false;

  private Map<String, ByteBuffer> servicesMetaData = null;
  private List<ContainerId> succeededContainers = null;
  private Map<ContainerId, SerializedException> failedContainers = null;

  public StartContainersResponsePBImpl() {
    builder = StartContainersResponseProto.newBuilder();
  }

  public StartContainersResponsePBImpl(StartContainersResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public StartContainersResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public boolean equals(Object other) {
    if (other == null)
      return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
      if (other instanceof StartContainersResponseProto)
        return this.proto.equals(((StartContainersResponseProto) other).proto);
      return this.proto.equals(other);
    }
    return false;
  }
}
private void mergeLocalToProto() {
    if (this.servicesMetaData != null) {
        addServicesMetaDataToProto();
    }
    if (this.succeededContainers != null) {
        addSucceededContainersToProto();
    }
    if (this.failedContainers != null) {
        addFailedContainersToProto();
    }
}

protected final ByteBuffer convertFromProtoFormat(ByteString byteString) {
    return ProtoUtils.convertFromProtoFormat(byteString);
}

protected final ByteString convertToProtoFormat(ByteBuffer byteBuffer) {
    return ProtoUtils.convertToProtoFormat(byteBuffer);
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

private SerializedExceptionPBImpl convertFromProtoFormat(SerializedExceptionProto p) {
    return new SerializedExceptionPBImpl(p);
}

private SerializedExceptionProto convertToProtoFormat(SerializedException t) {
    return ((SerializedExceptionPBImpl) t).getProto();
}

private void mergeLocalToProto() {
    return this.getProto().equals(this.getClass().cast(other).getProto());
}
if (viaProto) {
    maybeInitBuilder();
}
mergeLocalToBuilder();
proto = builder.build();
viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StartContainersResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public Map<String, ByteBuffer> getAllServicesMetaData() {
    initServicesMetaData();
    return this.servicesMetaData;
}

@Override
public void setAllServicesMetaData(Map<String, ByteBuffer> servicesMetaData) {
    if (servicesMetaData == null) {
        return;
    }
    initServicesMetaData();
    this.servicesMetaData.clear();
    this.servicesMetaData.putAll(servicesMetaData);
}

private void initServicesMetaData() {
    if (this.servicesMetaData != null) {
        return;
    }
    StartContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<StringBytesMapProto> list = p.getServicesMetaDataList();
    this.servicesMetaData = new HashMap<String, ByteBuffer>;
    for (StringBytesMapProto c : list) {
        this.servicesMetaData.put(c.getKey(),
            convertFromProtoFormat(c.getValue()));
    }
}

private void addServicesMetaDataToProto() {
    maybeInitBuilder();
    builder.clearServicesMetaData();
}
if (servicesMetaData == null)
    return;

Iterable<StringBytesMapProto> iterable =
    new Iterable<StringBytesMapProto>() {

        @Override
        public Iterator<StringBytesMapProto> iterator() {
            return new Iterator<StringBytesMapProto>() {

                Iterator<String> keyIter = servicesMetaData.keySet().iterator();

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }

                @Override
                public StringBytesMapProto next() {
                    String key = keyIter.next();
                    return StringBytesMapProto.newBuilder().setKey(key)
                        .setValue(convertToProtoFormat(servicesMetaData.get(key)))
                        .build();
                }

                @Override
                public boolean hasNext() {
                    return keyIter.hasNext();
                }
            };
        }
    };

    builder.addAllServicesMetaData(iterable);
}

private void addFailedContainersToProto() {
    maybeInitBuilder();
    builder.clearFailedRequests();
    if (this.failedContainers == null)
        return;
    List<ContainerExceptionMapProto> protoList =
        new ArrayList<ContainerExceptionMapProto>();

    for (Map.Entry<ContainerId, SerializedException> entry : this.failedContainers
        .entrySet()) {
        protoList.add(ContainerExceptionMapProto.newBuilder()
            .setContainerId(convertToProtoFormat(entry.getKey()))
            .setException(convertToProtoFormat(entry.getValue())).build());
    }
builder.addAllFailedRequests(protoList);
}

private void addSucceededContainersToProto() {
maybeInitBuilder();
binder.clearSucceededRequests();
if (this.succeededContainers == null) {
    return;
}
Iterable<ContainerIdProto> iterable = new Iterable<ContainerIdProto>() {
    @Override
    public Iterator<ContainerIdProto> iterator() {
        return new Iterator<ContainerIdProto>() {
            Iterator<ContainerId> iter = succeededContainers.iterator();

            @Override
            public boolean hasNext() {
                return iter.hasNext();
            }

            @Override
            public ContainerIdProto next() {
                return convertToProtoFormat(iter.next());
            }

            @Override
            public void remove() {
                throw new UnsupportedOperationException();
            }
        };
    }
    builder.addAllSucceededRequests(iterable);
}

private void initSucceededContainers() {
    if (this.succeededContainers != null)
        return;
    StartContainersResponseProtoOrBuilder p = viaProto ? proto : binder;
    List<ContainerIdProto> list = p.getSucceededRequestsList();
    this.succeededContainers = new ArrayList<ContainerId>();
    for (ContainerIdProto c : list) {
        this.succeededContainers.add(convertFromProtoFormat(c));
    }
}
@Override
public List<ContainerId> getSuccessfullyStartedContainers() {
    initSucceededContainers();
    return this.succeededContainers;
}

@Override
public void setSuccessfullyStartedContainers(
        List<ContainerId> succeededContainers) {
    maybeInitBuilder();
    if (succeededContainers == null) {
        builder.clearSucceededRequests();
    }
    this.succeededContainers = succeededContainers;
}

private void initFailedContainers() {
    if (this.failedContainers != null) {
        return;
    }
    StartContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerExceptionMapProto> protoList = p.getFailedRequestsList();
    this.failedContainers = new HashMap<ContainerId, SerializedException>();
    for (ContainerExceptionMapProto ce : protoList) {
        this.failedContainers.put(convertFromProtoFormat(ce.getContainerId()),
                convertFromProtoFormat(ce.getException()));
    }
}

@Override
public Map<ContainerId, SerializedException> getFailedRequests() {
    initFailedContainers();
    return this.failedContainers;
}

@Override
public void setFailedRequests(
        Map<ContainerId, SerializedException> failedContainers) {
    maybeInitBuilder();
    if (failedContainers == null)
        builder.clearFailedRequests();
    this.failedContainers = failedContainers;
}

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*/

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshUserToGroupsMappingsResponsePBImpl extends RefreshUserToGroupsMappingsResponse {

    RefreshUserToGroupsMappingsResponseProto proto =
    RefreshUserToGroupsMappingsResponseProto.getDefaultInstance();
    RefreshUserToGroupsMappingsResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshUserToGroupsMappingsResponsePBImpl() {
        builder = RefreshUserToGroupsMappingsResponseProto.newBuilder();
    }

    public RefreshUserToGroupsMappingsResponsePBImpl(RefreshUserToGroupsMappingsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshUserToGroupsMappingsResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }
@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshSuperUserGroupsConfigurationResponsePBImpl extends RefreshSuperUserGroupsConfigurationResponse {

    RefreshSuperUserGroupsConfigurationResponseProto proto =
    RefreshSuperUserGroupsConfigurationResponseProto.getDefaultInstance();
    RefreshSuperUserGroupsConfigurationResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshSuperUserGroupsConfigurationResponsePBImpl() {
        builder = RefreshSuperUserGroupsConfigurationResponseProto.newBuilder();
    }

    public RefreshSuperUserGroupsConfigurationResponsePBImpl(RefreshSuperUserGroupsConfigurationResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshSuperUserGroupsConfigurationResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }
}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class KillApplicationResponsePBImpl extends KillApplicationResponse {
  KillApplicationResponseProto proto = KillApplicationResponseProto.getDefaultInstance();
  KillApplicationResponseProto.Builder builder = null;
  boolean viaProto = false;

  public KillApplicationResponsePBImpl() {
    builder = KillApplicationResponseProto.newBuilder();
  }

  public KillApplicationResponsePBImpl(KillApplicationResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public KillApplicationResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
  }

  public static class Builder extends KillApplicationResponseProto.Builder {
    Builder() {
      super(KillApplicationResponseProto.getDefaultInstance());
    }
  }
}
return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.webapp.log;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.yarn.webapp.view.HtmlBlock;

@interfaceAudience.LimitedPrivate({"YARN", "MapReduce"})
public class AggregatedLogsNavBlock extends HtmlBlock {
@Override
protected void render(Block html) {
    html
        .div("#nav")
        .h3()._('Logs')._() //
        ._();
}
}
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 */
package org.apache.hadoop.yarn.server.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufHelper;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.records.ApplicationReport;
import org.apache.hadoop.yarn.api.records.ApplicationSubmitRequest;
import org.apache.hadoop.yarn.api.records.ApplicationSubmitResponse;
import org.apache.hadoop.yarn.api.records.ApplicationStatus;
import org.apache.hadoop.yarn.api.records.ApplicationType;
import org.apache.hadoop.yarn.api.records.ExecutionStatus;
import org.apache.hadoop.yarn.api.records.FinishApplicationProto;
import org.apache.hadoop.yarn.api.records.GetApplicationHistoryRequest;
import org.apache.hadoop.yarn.api.records.GetApplicationHistoryResponse;
import org.apache.hadoop.yarn.api.records.GroupRequest;
import org.apache.hadoop.yarn.api.records.GroupResult;
import org.apache.hadoop.yarn.api.records.GroupStatus;
import org.apache.hadoop.yarn.api.records.LocalResourceDetail;
import org.apache.hadoop.yarn.api.records.LocalResourceGroup;
import org.apache.hadoop.yarn.api.records.LocalResourceInfo;
import org.apache.hadoop.yarn.api.records.LocalResourceInfoProto;
import org.apache.hadoop.yarn.api.records.LocalResourceInfoProtoLite;
import org.apache.hadoop.yarn.api.records.LocalResourceProto;
import org.apache.hadoop.yarn.api.records.LocalResourcesProto;
import org.apache.hadoop.yarn.api.records.LocalResourcesProtoLite;
import org.apache.hadoop.yarn.api.records.LocalResourceTypes;
import org.apache.hadoop.yarn.api.records.LocalResourceTypesProto;
import org.apache.hadoop.yarn.api.records.LocalResourceTypesProtoLite;
import org.apache.hadoop.yarn.api.records.LocalResourcesProtoLite;
import org.apache.hadoop.yarn.api.records.LogsRequest;
import org.apache.hadoop.yarn.api.records.LogsResponse;
import org.apache.hadoop.yarn.api.records.LogsResponseProto;
import org.apache.hadoop.yarn.api.records.LogsResponseProtoLite;
import org.apache.hadoop.yarn.api.records.NewApplicationRequest;
import org.apache.hadoop.yarn.api.records.NewApplicationResponse;
import org.apache.hadoop.yarn.api.records.NewApplicationResponseProto;
import org.apache.hadoop.yarn.api.records.NodeStatus;
import org.apache.hadoop.yarn.api.records.NodesRequest;
import org.apache.hadoop.yarn.api.records.NodesResponse;
import org.apache.hadoop.yarn.api.records.NodeStatusProto;
import org.apache.hadoop.yarn.api.records.NodeStatusProtoLite;
import org.apache.hadoop.yarn.api.records.QueueReport;
import org.apache.hadoop.yarn.api.records.QueueReportProto;
import org.apache.hadoop.yarn.api.records.QueueReportProtoLite;
import org.apache.hadoop.yarn.api.records.QueueStats;
import org.apache.hadoop.yarn.api.records.QueueStatsProto;
import org.apache.hadoop.yarn.api.records.QueueStatsProtoLite;
import org.apache.hadoop.yarn.api.records.QueueStatus;
import org.apache.hadoop.yarn.api.records.QueueStatusProto;
import org.apache.hadoop.yarn.api.records.QueueStatusProtoLite;
import org.apache.hadoop.yarn.api.records.QueueUsers;
import org.apache.hadoop.yarn.api.records.QueueUsersProto;
import org.apache.hadoop.yarn.api.records.QueueUsersProtoLite;
import org.apache.hadoop.yarn.api.records.ServiceAclRequest;
import org.apache.hadoop.yarn.api.records.ServiceAclRequestProto;
import org.apache.hadoop.yarn.api.records.ServiceAclsRequest;
import org.apache.hadoop.yarn.api.records.ServiceAclsRequestProto;
import org.apache.hadoop.yarn.api.records.ServiceAclsRequestProtoLite;
import org.apache.hadoop.yarn.api.records.ServiceAclsResponse;
import org.apache.hadoop.yarn.api.records.ServiceAclsResponseProto;
import org.apache.hadoop.yarn.api.records.ServiceAclsResponseProtoLite;
import org.apache.hadoop.yarn.api.records.ServiceId;
import org.apache.hadoop.yarn.api.records.ServiceIdProto;
import org.apache.hadoop.yarn.api.records.ServiceIdProtoLite;
import org.apache.hadoop.yarn.api.records.ServiceProtos.RefreshNodesRequestProto;
import org.apache.hadoop.yarn.api.records.ServiceProtos.RefreshQueuesRequestProto;

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import org.apache.hadoop.yarn.server.api.ResourceManagerAdministrationProtocolPB;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshSuperUserGroupsConfigurationRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsResponse;
import org.apache.hadoop.yarn.server.proto.RefreshAdminAclsRequestPBImpl;
import org.apache.hadoop.yarn.server.proto.RefreshAdminAclsResponsePBImpl;
import org.apache.hadoop.yarn.server.proto.RefreshNodesRequestPBImpl;
import org.apache.hadoop.yarn.server.proto.RefreshNodesResponsePBImpl;
import org.apache.hadoop.yarn.server.proto.RefreshQueuesRequestPBImpl;
import org.apache.hadoop.yarn.server.proto.RefreshQueuesResponsePBImpl;
import org.apache.hadoop.yarn.server.proto.RefreshServiceAclsRequestPBImpl;
import org.apache.hadoop.yarn.server.proto.RefreshServiceAclsResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsResponsePBImpl;
import com.google.protobuf.ServiceException;

@Private
public class ResourceManagerAdministrationProtocolPBClientImpl implements ResourceManagerAdministrationProtocol, Closeable {

  private ResourceManagerAdministrationProtocolPB proxy;

  public ResourceManagerAdministrationProtocolPBClientImpl(long clientVersion, InetSocketAddress addr,
        Configuration conf) throws IOException {
    RPC.setProtocolEngine(conf, ResourceManagerAdministrationProtocolPB.class,
        ProtobufRpcEngine.class);
    proxy = (ResourceManagerAdministrationProtocolPB)RPC.getProxy(
@Override
public void close() {
    if (this.proxy != null) {
        RPC.stopProxy(this.proxy);
    }
}

@ Override
public RefreshQueuesResponse refreshQueues(RefreshQueuesRequest request)
    throws YarnException, IOException {
    RefreshQueuesRequestProto requestProto =
        ((RefreshQueuesRequestPBImpl)request).getProto();
    try {
        return new RefreshQueuesResponsePBImpl(
            proxy.refreshQueues(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@ Override
public RefreshNodesResponse refreshNodes(RefreshNodesRequest request)
    throws YarnException, IOException {
    RefreshNodesRequestProto requestProto =
        ((RefreshNodesRequestPBImpl)request).getProto();
    try {
        return new RefreshNodesResponsePBImpl(
            proxy.refreshNodes(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@ Override
public RefreshSuperUserGroupsConfigurationResponse refreshSuperUserGroupsConfiguration(
    RefreshSuperUserGroupsConfigurationRequest request)
    throws YarnException, IOException {
    RefreshSuperUserGroupsConfigurationRequestProto requestProto =
        ((RefreshSuperUserGroupsConfigurationRequestPBImpl)request).getProto();
    try {
        return new RefreshSuperUserGroupsConfigurationResponsePBImpl(
            proxy.refreshSuperUserGroupsConfiguration(null, requestProto));
    } catch (ServiceException e) {
RPCUtil.unwrapAndThrowException(e);
return null;
}

@Override
public RefreshUserToGroupsMappingsResponse refreshUserToGroupsMappings(RefreshUserToGroupsMappingsRequest request) throws YarnException, IOException {
    RefreshUserToGroupsMappingsRequestProto requestProto = ((RefreshUserToGroupsMappingsRequestPBImpl)request).getProto();
    try {
        return new RefreshUserToGroupsMappingsResponsePBImpl(
            proxy.refreshUserToGroupsMappings(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RefreshAdminAclsResponse refreshAdminAcls(RefreshAdminAclsRequest request) throws YarnException, IOException {
    RefreshAdminAclsRequestProto requestProto = ((RefreshAdminAclsRequestPBImpl)request).getProto();
    try {
        return new RefreshAdminAclsResponsePBImpl(
            proxy.refreshAdminAcls(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RefreshServiceAclsResponse refreshServiceAcls(RefreshServiceAclsRequest request) throws YarnException, IOException {
    RefreshServiceAclsRequestProto requestProto = ((RefreshServiceAclsRequestPBImpl)request).getProto();
    try {
        return new RefreshServiceAclsResponsePBImpl(proxy.refreshServiceAcls(
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}
@Override
public String[] getGroupsForUser(String user) throws IOException {
  GetGroupsForUserRequestProto requestProto =
      GetGroupsForUserRequestProto.newBuilder().setUser(user).build();
  try {
    GetGroupsForUserResponseProto responseProto =
        proxy.getGroupsForUser(null, requestProto);
    return (String[]) responseProto.getGroupsList().toArray(
      new String[responseProto.getGroupsCount()]);
  } catch (ServiceException e) {
    throw ProtobufHelper.getRemoteException(e);
  }
}

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/*==================================================================

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RenewDelegationTokenResponsePBImpl extends
    RenewDelegationTokenResponse {

RenewDelegationTokenResponseProto proto =
    RenewDelegationTokenResponseProto.getDefaultInstance();
RenewDelegationTokenResponseProto.Builder builder = null;
boolean viaProto = false;

public RenewDelegationTokenResponsePBImpl() {
    this.builder = RenewDelegationTokenResponseProto.newBuilder();
}

public RenewDelegationTokenResponsePBImpl (RenewDelegationTokenResponseProto proto) {
    this.proto = proto;
    this.viaProto = true;
}

public RenewDelegationTokenResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RenewDelegationTokenResponseProto.newBuilder(proto);
    }
    viaProto = false;
}
```java
@override
public long getNextExpirationTime() {
    RenewDelegationTokenResponseProtoOrBuilder p = viaProto ? proto : builder;
    return p.getNewExpiryTime();
}

@override
public void setNextExpirationTime(long expTime) {
    maybeInitBuilder();
    builder.setNewExpiryTime(expTime);
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenRequest;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RenewDelegationTokenRequestPBImpl extends RenewDelegationTokenRequestPBImpl {
    RenewDelegationTokenRequestProtoOrBuilder renewDelegationTokenRequestProto =
        RenewDelegationTokenRequestProto.getDefaultInstance();
```
RenewDelegationTokenRequestProto.Builder builder = null;
boolean viaProto = false;

public RenewDelegationTokenRequestPBImpl() {
    builder = RenewDelegationTokenRequestProto.newBuilder();
}

public RenewDelegationTokenRequestPBImpl (RenewDelegationTokenRequestProto proto) {
    this.proto = proto;
    this.viaProto = true;
}

Token token;

@Override
public Token getDelegationToken() {
    RenewDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.token != null) {
        return this.token;
    }
    this.token = convertFromProtoFormat(p.getToken());
    return this.token;
}

@Override
public void setDelegationToken(Token token) {
    maybeInitBuilder();
    if (token == null)
        builder.clearToken();
    this.token = token;
}

public RenewDelegationTokenRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)

    return false;
}

@Override
public boolean equals(Object other) {
    if (other == null)

    return false;
}
return false;
if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
private void mergeLocalToBuilder() {
    if (token != null) {
        builder.setToken(convertToProtoFormat(this.token));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RenewDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private TokenPBImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBImpl(p);
}
private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBImpl)t).getProto();
}
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package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterResponse;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class FinishApplicationMasterResponsePBImpl extends FinishApplicationMasterResponse {
  FinishApplicationMasterResponseProto proto = FinishApplicationMasterResponseProto.getDefaultInstance();
  FinishApplicationMasterResponseProto.Builder builder = null;
  boolean viaProto = false;

  public FinishApplicationMasterResponsePBImpl() {
    builder = FinishApplicationMasterResponseProto.newBuilder();
  }

  public FinishApplicationMasterResponsePBImpl(FinishApplicationMasterResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public FinishApplicationMasterResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return 0;
  }
}
return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = FinishApplicationMasterResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public boolean getIsUnregistered() {
    FinishApplicationMasterResponseProtoOrBuilder p =
    viaProto ? proto : builder;
    return p.getIsUnregistered();
}

@Override
public void setIsUnregistered(boolean isUnregistered) {
    maybeInitBuilder();
    builder.setIsUnregistered(isUnregistered);
}

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 */
import java.util.ArrayList;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.StopContainersRequestProto;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.StopContainersRequestProtoOrBuilder;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StopContainersRequestPBImpl extends StopContainersRequest {

StopContainersRequestProto proto = StopContainersRequestProto
    .getDefaultInstance();
StopContainersRequestProto.Builder builder = null;
boolean viaProto = false;

private List<ContainerId> containerIds = null;

public StopContainersRequestPBImpl() {
    builder = StopContainersRequestProto.newBuilder();
}

public StopContainersRequestPBImpl(StopContainersRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public StopContainersRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}
@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.containerIds != null) {
        addLocalContainerIdsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StopContainersRequestProto.newBuilder(proto);
        viaProto = false;
    }
}

private void addLocalContainerIdsToProto() {
    maybeInitBuilder();
    builder.clearContainerId();
    if (this.containerIds == null)
        return;
    builder.addAllContainerId(this.containerIds);
List<ContainerIdProto> protoList = new ArrayList<ContainerIdProto>();
for (ContainerId id : containerIds) {
    protoList.add(convertToProtoFormat(id));
}
builder.addAllContainerId(protoList);

private void initLocalContainerIds() {
    if (this.containerIds != null) {
        return;
    }
    StopContainersRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> containerIds = p.getContainerIdList();
    this.containerIds = new ArrayList<ContainerId>();
    for (ContainerIdProto id : containerIds) {
        this.containerIds.add(convertFromProtoFormat(id));
    }
}

@Override
public List<ContainerId> getContainerIds() {
    initLocalContainerIds();
    return this.containerIds;
}

@Override
public void setContainerIds(List<ContainerId> containerIds) {
    maybeInitBuilder();
    if (containerIds == null)
        builder.clearContainerId();
    this.containerIds = containerIds;
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

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package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponse;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshNodesResponsePBImpl extends RefreshNodesResponse {

    RefreshNodesResponseProto proto = RefreshNodesResponseProto.getDefaultInstance();
    RefreshNodesResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshNodesResponsePBImpl() {
        builder = RefreshNodesResponseProto.newBuilder();
    }

    public RefreshNodesResponsePBImpl(RefreshNodesResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshNodesResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Private
    @Unstable
    public class RefreshNodesResponsePBImpl extends RefreshNodesResponse {

        RefreshNodesResponseProto proto = RefreshNodesResponseProto.getDefaultInstance();
        RefreshNodesResponseProto.Builder builder = null;
        boolean viaProto = false;

        public RefreshNodesResponsePBImpl() {
            builder = RefreshNodesResponseProto.newBuilder();
        }

        public RefreshNodesResponsePBImpl(RefreshNodesResponseProto proto) {
            this.proto = proto;
            viaProto = true;
        }

        public RefreshNodesResponseProto getProto() {
            proto = viaProto ? proto : builder.build();
            viaProto = true;
            return proto;
        }

        @Override
        public int hashCode() {
            return getProto().hashCode();
        }
    }
@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    } return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshUserToGroupsMappingsRequestPBImpl extends RefreshUserToGroupsMappingsRequestPBImpl {
RefreshUserToGroupsMappingsRequestProto proto =
RefreshUserToGroupsMappingsRequestProto.getDefaultInstance();
RefreshUserToGroupsMappingsRequestProto.Builder builder = null;
boolean viaProto = false;

public RefreshUserToGroupsMappingsRequestPBImpl() {
    builder = RefreshUserToGroupsMappingsRequestProto.newBuilder();
}

public RefreshUserToGroupsMappingsRequestPBImpl(RefreshUserToGroupsMappingsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public RefreshUserToGroupsMappingsRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerLaunchContextPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StartContainerRequestPBImpl extends StartContainerRequest {
  StartContainerRequestProto proto = StartContainerRequestProto.getDefaultInstance();
  StartContainerRequestProto.Builder builder = null;
  boolean viaProto = false;

  private ContainerLaunchContext containerLaunchContext = null;
  private Token containerToken = null;

  public StartContainerRequestPBImpl() {
    builder = StartContainerRequestProto.newBuilder();
  }

  public StartContainerRequestPBImpl(StartContainerRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }
}
public StartContainerRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.containerLaunchContext != null) {
        builder.setContainerLaunchContext(convertToProtoFormat(this.containerLaunchContext));
    }
    if(this.containerToken != null) {
        builder.setContainerToken(convertToProtoFormat(this.containerToken));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StartContainerRequestProto.newBuilder(proto);
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StartContainerRequestProto.newBuilder(proto);
    }
}
viaProto = false;
}

@Override
public ContainerLaunchContext getContainerLaunchContext() {
    StartContainerRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.containerLaunchContext != null) {
        return this.containerLaunchContext;
    }
    if (!p.hasContainerLaunchContext()) {
        return null;
    }
    this.containerLaunchContext = convertFromProtoFormat(p.getContainerLaunchContext());
    return this.containerLaunchContext;
}

@Override
public void setContainerLaunchContext(ContainerLaunchContext containerLaunchContext) {
    maybeInitBuilder();
    if (containerLaunchContext == null) {
        builder.clearContainerLaunchContext();
    }
    this.containerLaunchContext = containerLaunchContext;
}

@Override
public Token getContainerToken() {
    StartContainerRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.containerToken != null) {
        return this.containerToken;
    }
    if (!p.hasContainerToken()) {
        return null;
    }
    this.containerToken = convertFromProtoFormat(p.getContainerToken());
    return this.containerToken;
}

@Override
public void setContainerToken(Token containerToken) {
    maybeInitBuilder();
    if (containerToken == null) {
        builder.clearContainerToken();
    }
    this.containerToken = containerToken;
}

private ContainerLaunchContextPBImpl convertFromProtoFormat(ContainerLaunchContextProto p) {
return new ContainerLaunchContextPBImpl(p);
}

private ContainerLaunchContextProto convertToProtoFormat(ContainerLaunchContext t) {  
    return ((ContainerLaunchContextPBImpl)t).getProto();
}

private TokenPBImpl convertFromProtoFormat(TokenProto containerProto) {  
    return new TokenPBImpl(containerProto);
}

private TokenProto convertToProtoFormat(Token container) {  
    return ((TokenPBImpl)container).getProto();
}

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 */
	package org.apache.hadoop.yarn.logaggregation;

import java.io.IOException;
import java.util.Timer;
import java.util.TimerTask;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs<Path;
import org.apache.hadoop.security.AccessControlException;
import org.apache.hadoop.service.AbstractService;
import org.apache.hadoop.yarn.conf.YarnConfiguration;

/**
 * A service that periodically deletes aggregated logs.
 */
@Private
public class AggregatedLogDeletionService extends AbstractService {

private static final Log LOG = LogFactory.getLog(AggregatedLogDeletionService.class);

private Timer timer = null;

static class LogDeletionTask extends TimerTask {

private Configuration conf;

private long retentionMillis;

private String suffix = null;

private Path remoteRootLogDir = null;

public LogDeletionTask(Configuration conf, long retentionSecs) {
this.conf = conf;
this.retentionMillis = retentionSecs * 1000;
this.suffix = LogAggregationUtils.getRemoteNodeLogDirSuffix(conf);
this.remoteRootLogDir =
    new Path(conf.get(YarnConfiguration.NM_REMOTE_APP_LOG_DIR,
                    YarnConfiguration.DEFAULT_NM_REMOTE_APP_LOG_DIR));
}

@Override
public void run() {
long cutoffMillis = System.currentTimeMillis() - retentionMillis;
LOG.info("aggregated log deletion started.");
try {
    FileSystem fs = remoteRootLogDir.getFileSystem(conf);

    for(FileStatus userDir : fs.listStatus(remoteRootLogDir)) {
        if(userDir.isDirectory()) {
            Path userDirPath = new Path(userDir.getPath(), suffix);
            deleteOldLogDirsFrom(userDirPath, cutoffMillis, fs);
        }
    }
} catch (IOException e) {
    logIOException("Error reading root log dir this deletion " +
"attempt is being aborted", e);
}
LOG.info("aggregated log deletion finished.");
}
private static void deleteOldLogDirsFrom(Path dir, long cutoffMillis,
        FileSystem fs) {
    try {
        for(FileStatus appDir : fs.listStatus(dir)) {
            if(appDir.isDirectory() &&
                appDir.getModificationTime() < cutoffMillis) {
                if(shouldDeleteLogDir(appDir, cutoffMillis, fs)) {
                    try {
                        LOG.info("Deleting aggregated logs in "+appDir.getPath());
                        fs.delete(appDir.getPath(), true);
                    } catch (IOException e) {
                        logIOException("Could not delete "+appDir.getPath(), e);
                    }
                }
            }
        }
    } catch (IOException e) {
        logIOException("Could not read the contents of "+ dir, e);
    }
}

private static boolean shouldDeleteLogDir(FileStatus dir, long cutoffMillis,
        FileSystem fs) {
    boolean shouldDelete = true;
    try {
        for(FileStatus node: fs.listStatus(dir.getPath())) {
            if(node.getModificationTime() >= cutoffMillis) {
                shouldDelete = false;
                break;
            }
        }
    } catch(IOException e) {
        logIOException("Error reading the contents of " + dir.getPath(), e);
        shouldDelete = false;
    }
    return shouldDelete;
}

private static void logIOException(String comment, IOException e) {
    if(e instanceof AccessControlException) {
        String message = e.getMessage();
        //TODO fix this after HADOOP-8661
        message = message.split("\n")[0];
        LOG.warn(comment + " " + message);
    } else {
        LOG.error(comment, e);
    }
}
public AggregatedLogDeletionService() {
    super(AggregatedLogDeletionService.class.getName());
}

@Override
protected void serviceStart() throws Exception {
    Configuration conf = getConf();
    if (!conf.getBoolean(YarnConfiguration.LOG_AGGREGATION_ENABLED,
        YarnConfiguration.DEFAULT_LOG_AGGREGATION_ENABLED)) {
        // Log aggregation is not enabled so don't bother
        return;
    }
    long retentionSecs = conf.getLong(YarnConfiguration.LOG_AGGREGATION_RETAIN_SECONDS,
        YarnConfiguration.DEFAULT_LOG_AGGREGATION_RETAIN_SECONDS);
    if (retentionSecs < 0) {
        LOG.info("Log Aggregation deletion is disabled because retention is" +
            " too small (" + retentionSecs + ")");
        return;
    }
    long checkIntervalMsecs = 1000 * conf.getLong(
        YarnConfiguration.LOG_AGGREGATION_RETAIN_CHECK_INTERVAL_SECONDS,
        YarnConfiguration.DEFAULT_LOG_AGGREGATION_RETAIN_CHECK_INTERVAL_SECONDS);
    if (checkIntervalMsecs <= 0) {
        // when unspecified compute check interval as 1/10th of retention
        checkIntervalMsecs = (retentionSecs * 1000) / 10;
    }
    TimerTask task = new LogDeletionTask(conf, retentionSecs);
    timer = new Timer();
    timer.scheduleAtFixedRate(task, 0, checkIntervalMsecs);
    super.serviceStart();
}

@Override
protected void serviceStop() throws Exception {
    if (timer != null) {
        timer.cancel();
    }
    super.serviceStop();
}

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*/

package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.Resource;

@Private
@Unstable
public class ResourcePBImpl extends Resource {
  ResourceProto proto = ResourceProto.getDefaultInstance();
  ResourceProto.Builder builder = null;
  boolean viaProto = false;

  public ResourcePBImpl() {
    builder = ResourceProto.newBuilder();
  }

  public ResourcePBImpl(ResourceProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public ResourceProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  private void maybeInitBuilder() {
    if (viaProto || builder == null) {
      builder = ResourceProto.newBuilder(proto);
    }
    viaProto = false;
  }
}
@Override
public int getMemory() {
    ResourceProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getMemory());
}

@Override
public void setMemory(int memory) {
    maybeInitBuilder();
    builder.setMemory((memory));
}

@Override
public int getVirtualCores() {
    ResourceProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getVirtualCores());
}

@Override
public void setVirtualCores(int vCores) {
    maybeInitBuilder();
    builder.setVirtualCores((vCores));
}

@Override
public int compareTo(Resource other) {
    int diff = this.getMemory() - other.getMemory();
    if (diff == 0) {
        diff = this.getVirtualCores() - other.getVirtualCores();
    }
    return diff;
}

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 */
package org.apache.hadoop.yarn.api.impl.pb.service;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.StopContainersRequestProto;
import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ContainerManagementProtocolPBServiceImpl implements ContainerManagementProtocolPB {

    private ContainerManagementProtocol real;

    public ContainerManagementProtocolPBServiceImpl(ContainerManagementProtocol impl) {
        this.real = impl;
    }

    @Override
    public StartContainersResponseProto startContainers(RpcController arg0,
            StartContainersRequestProto proto) throws ServiceException {
        StartContainersRequestPBImpl request = new StartContainersRequestPBImpl(proto);

        return this.real.startContainers(request);
    }
}

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try {
    StartContainersResponse response = real.startContainers(request);
    return ((StartContainersResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public StopContainersResponseProto stopContainers(RpcController arg0,
    StopContainersRequestProto proto) throws ServiceException {
    StopContainersRequestPBImpl request = new StopContainersRequestPBImpl(proto);
    try {
        StopContainersResponse response = real.stopContainers(request);
        return ((StopContainersResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public GetContainerStatusesResponseProto getContainerStatuses(
    RpcController arg0, GetContainerStatusesRequestProto proto)
    throws ServiceException {
    GetContainerStatusesRequestPBImpl request = new GetContainerStatusesRequestPBImpl(proto);
    try {
        GetContainerStatusesResponse response = real.getContainerStatuses(request);
        return ((GetContainerStatusesResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

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*
package org.apache.hadoop.yarn.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationClientProtocol;
import org.apache.hadoop.yarn.api.ApplicationClientProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationReportRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationReportRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetNewApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.SubmitApplicationRequestProto;
import com.google.protobuf.ServiceException;

@Private
public class ApplicationClientProtocolPBClientImpl implements ApplicationClientProtocol,
        Closeable {
    private ApplicationClientProtocolPB proxy;

    public ApplicationClientProtocolPBClientImpl(long clientVersion,
            InetSocketAddress addr, Configuration conf) throws IOException {
        RPC.setProtocolEngine(conf, ApplicationClientProtocolPB.class,
                ProtobufRpcEngine.class);
    }
}
proxy = RPC.getProxy(ApplicationClientProtocolPB.class, clientVersion, addr, conf);
}

@Override
public void close() {
    if (this.proxy != null) {
        RPC.stopProxy(this.proxy);
    }
}

@Override
public KillApplicationResponse forceKillApplication(KillApplicationRequest request) throws YarnException, IOException {
    KillApplicationRequestProto requestProto =
            ((KillApplicationRequestPBImpl) request).getProto();
    try {
        return new KillApplicationResponsePBImpl(proxy.forceKillApplication(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetApplicationReportResponse getApplicationReport(GetApplicationReportRequest request) throws YarnException, IOException {
    GetApplicationReportRequestProto requestProto =
            ((GetApplicationReportRequestPBImpl) request).getProto();
    try {
        return new GetApplicationReportResponsePBImpl(proxy.getApplicationReport(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetClusterMetricsResponse getClusterMetrics(GetClusterMetricsRequest request) throws YarnException, IOException {
    GetClusterMetricsRequestProto requestProto =
            ((GetClusterMetricsRequestPBImpl) request).getProto();
    try {
        return new GetClusterMetricsResponsePBImpl(proxy.getClusterMetrics(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}
@Override
public GetNewApplicationResponse getNewApplication(
    GetNewApplicationRequest request) throws YarnException,
    IOException {
    GetNewApplicationRequestProto requestProto =
        ((GetNewApplicationRequestPBImpl) request).getProto();
    try {
        return new GetNewApplicationResponsePBImpl(proxy.getNewApplication(null,
            requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public SubmitApplicationResponse submitApplication(
    SubmitApplicationRequest request) throws YarnException,
    IOException {
    SubmitApplicationRequestProto requestProto =
        ((SubmitApplicationRequestPBImpl) request).getProto();
    try {
        return new SubmitApplicationResponsePBImpl(proxy.submitApplication(null,
            requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetApplicationsResponse getApplications(
    GetApplicationsRequest request) throws YarnException,
    IOException {
    GetApplicationsRequestProto requestProto =
        ((GetApplicationsRequestPBImpl) request).getProto();
    try {
        return new GetApplicationsResponsePBImpl(proxy.getApplications(
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
@Override
public GetClusterNodesResponse getClusterNodes(GetClusterNodesRequest request)
    throws YarnException, IOException {
    GetClusterNodesRequestProto requestProto =
        ((GetClusterNodesRequestPBImpl) request).getProto();
    try {
        return new GetClusterNodesResponsePBImpl(proxy.getClusterNodes(null,
            requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetQueueInfoResponse getQueueInfo(GetQueueInfoRequest request)
    throws YarnException, IOException {
    GetQueueInfoRequestProto requestProto =
        ((GetQueueInfoRequestPBImpl) request).getProto();
    try {
        return new GetQueueInfoResponsePBImpl(proxy.getQueueInfo(null,
            requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetQueueUserAclsInfoResponse getQueueUserAcls(
    GetQueueUserAclsInfoRequest request) throws YarnException,
    IOException {
    GetQueueUserAclsInfoRequestProto requestProto =
        ((GetQueueUserAclsInfoRequestPBImpl) request).getProto();
    try {
        return new GetQueueUserAclsInfoResponsePBImpl(proxy.getQueueUserAcls(
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetDelegationTokenResponse getDelegationToken(
    GetDelegationTokenRequest request) throws YarnException,
    IOException {
    GetDelegationTokenRequestProto requestProto =
        ((GetDelegationTokenRequestPBImpl) request).getProto();
    try {
        return new GetDelegationTokenResponsePBImpl(proxy.getDelegationToken(  
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RenewDelegationTokenResponse renewDelegationToken(
    RenewDelegationTokenRequest request) throws YarnException,
    IOException {
    RenewDelegationTokenRequestProto requestProto =
        ((RenewDelegationTokenRequestPBImpl) request).getProto();
    try {
        return new RenewDelegationTokenResponsePBImpl(proxy.renewDelegationToken(  
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public CancelDelegationTokenResponse cancelDelegationToken(
    CancelDelegationTokenRequest request) throws YarnException,
    IOException {
    CancelDelegationTokenRequestProto requestProto =
        ((CancelDelegationTokenRequestPBImpl) request).getProto();
    try {
        return new CancelDelegationTokenResponsePBImpl(
            proxy.cancelDelegationToken(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

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Open Source Used In Tetration 3.5.1 37649
package org.apache.hadoop.yarn.factories.impl.pb;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.factories.RecordFactory;

@Private
public class RecordFactoryPBImpl implements RecordFactory {

    private static final String PB_IMPL_PACKAGE_SUFFIX = "impl.pb";
    private static final String PB_IMPL_CLASS_SUFFIX = "PBImpl";

    private static final RecordFactoryPBImpl self = new RecordFactoryPBImpl();
    private Configuration localConf = new Configuration();
    private ConcurrentMap<Class<?>, Constructor<?>> cache = new ConcurrentHashMap<Class<?>, Constructor<?>>();

    private RecordFactoryPBImpl() {
    }

    public static RecordFactory get() {
        return self;
    }

    @SuppressWarnings("unchecked")
    @Override
    public <T> T newRecordInstance(Class<T> clazz) {

        private static final RecordFactoryPBImpl self = new RecordFactoryPBImpl();
        private Configuration localConf = new Configuration();
        private ConcurrentHashMap<Class<?>, Constructor<?>> cache = new ConcurrentHashMap<Class<?>, Constructor<?>>();

        private RecordFactoryPBImpl() {

        }

        public static RecordFactory get() {
            return self;
        }

        @SuppressWarnings("unchecked")
        @Override
        public <T> T newRecordInstance(Class<T> clazz) {

        }

    }

    @SuppressWarnings("unchecked")
    @Override
    public <T> T newRecordInstance(Class<T> clazz) {

    }

    @SuppressWarnings("unchecked")
    @Override
    public <T> T newRecordInstance(Class<T> clazz) {

}
Constructor<?> constructor = cache.get(clazz);
if (constructor == null) {
    Class<?> pbClazz = null;
    try {
        pbClazz = localConf.getClassByName(getPBImplClassName(clazz));
    } catch (ClassNotFoundException e) {
        throw new YarnRuntimeException("Failed to load class: [" + getPBImplClassName(clazz) + "]", e);
    }
    try {
        constructor = pbClazz.getConstructor();
        constructor.setAccessible(true);
        cache.putIfAbsent(clazz, constructor);
    } catch (NoSuchMethodException e) {
        throw new YarnRuntimeException("Could not find 0 argument constructor", e);
    }
}
try {
    Object retObject = constructor.newInstance();
    return (T)retObject;
} catch (InvocationTargetException e) {
    throw new YarnRuntimeException(e);
} catch (IllegalAccessException e) {
    throw new YarnRuntimeException(e);
} catch (InstantiationException e) {
    throw new YarnRuntimeException(e);
}
}

private String getPBImplClassName(Class<?> clazz) {
    String srcPackagePart = getPackageName(clazz);
    String srcClassName = getClassName(clazz);
    String destPackagePart = srcPackagePart + PB_IMPL_PACKAGE_SUFFIX;
    String destClassPart = srcClassName + PB_IMPL_CLASS_SUFFIX;
    return destPackagePart + "." + destClassPart;
}

private String getClassName(Class<?> clazz) {
    String fqName = clazz.getName();
    return (fqName.substring(fqName.lastIndexOf(".") + 1, fqName.length()));
}

private String getPackageName(Class<?> clazz) {
    return clazz.getPackage().getName();
}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationReportRequest;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetApplicationReportRequestPBImpl extends GetApplicationReportRequest {
  GetApplicationReportRequestProto proto = GetApplicationReportRequestProto.getDefaultInstance();
  GetApplicationReportRequestProto.proto = GetApplicationReportRequestProto.getDefaultInstance();
  GetApplicationReportRequestProto.proto.newBuilder() = null;
  boolean viaProto = false;
  private ApplicationId applicationId = null;

  public GetApplicationReportRequestPBImpl() {
    builder = GetApplicationReportRequestProto.proto.newBuilder();
  }

  public GetApplicationReportRequestPBImpl(GetApplicationReportRequestProto proto) {
    this.proto = proto;
  }
viaProto = true;
}

public GetApplicationReportRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (applicationId != null) {
        builder.setApplicationId(convertToProtoFormat(this.applicationId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationReportRequestProto.newBuilder(proto);
    }
}

privateugwu

viaProto = false;
}

@Override
public ApplicationId getApplicationId() {
    GetApplicationReportRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.applicationId != null) {
        return this.applicationId;
    }
    if (!p.hasApplicationId()) {
        return null;
    }
    this.applicationId = convertFromProtoFormat(p.getApplicationId());
    return this.applicationId;
}

@Override
public void setApplicationId(ApplicationId applicationId) {
    maybeInitBuilder();
    if (applicationId == null)
        builder.clearApplicationId();
    this.applicationId = applicationId;
}

private ApplicationIdPBImpl convertFromProtoFormat(ApplicationIdProto p) {
    return new ApplicationIdPBImpl(p);
}

private ApplicationIdProto convertToProtoFormat(ApplicationId t) {
    return ((ApplicationIdPBImpl)t).getProto();
}

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*/

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponse;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshQueuesResponsePBImpl extends RefreshQueuesResponse {

RefreshQueuesResponseProto proto = RefreshQueuesResponseProto.getDefaultInstance();
RefreshQueuesResponseProto.Builder builder = null;
boolean viaProto = false;

public RefreshQueuesResponsePBImpl() {
    builder = RefreshQueuesResponseProto.newBuilder();
}

public RefreshQueuesResponsePBImpl(RefreshQueuesResponseProto proto) {
    this.proto = viaProto ? proto : builder.build();
    viaProto = true;
}

public RefreshQueuesResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
return false;
if (other.getClass().isAssignableFrom(this.getClass())) {
	if (other.getClass().isAssignableFrom(this.getClass())) {


return this.getProto().equals(this.getClass().cast(other).getProto());
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsRequestPBImpl extends RefreshServiceAclsRequest {

    RefreshServiceAclsRequestProto proto =
        RefreshServiceAclsRequestProto.getDefaultInstance();
    RefreshServiceAclsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshServiceAclsRequestPBImpl() {
        builder = RefreshServiceAclsRequestProto.newBuilder();
    }

    @Override
    public boolean equals(Object other) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

public RefreshServiceAclsRequestPBImpl() {
    builder = RefreshServiceAclsRequestProto.newBuilder();
}

return this.getProto().equals(this.getClass().cast(other).getProto());
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsRequestPBImpl extends RefreshServiceAclsRequest {

    RefreshServiceAclsRequestProto proto =
        RefreshServiceAclsRequestProto.getDefaultInstance();
    RefreshServiceAclsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshServiceAclsRequestPBImpl() {
        builder = RefreshServiceAclsRequestProto.newBuilder();
    }

    @Override
    public boolean equals(Object other) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsRequestPBImpl extends RefreshServiceAclsRequest {

    RefreshServiceAclsRequestProto proto =
        RefreshServiceAclsRequestProto.getDefaultInstance();
    RefreshServiceAclsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshServiceAclsRequestPBImpl() {
        builder = RefreshServiceAclsRequestProto.newBuilder();
    }

    @Override
    public boolean equals(Object other) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsRequestPBImpl extends RefreshServiceAclsRequest {

    RefreshServiceAclsRequestProto proto =
        RefreshServiceAclsRequestProto.getDefaultInstance();
    RefreshServiceAclsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshServiceAclsRequestPBImpl() {
        builder = RefreshServiceAclsRequestProto.newBuilder();
    }

    @Override
    public boolean equals(Object other) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsRequestPBImpl extends RefreshServiceAclsRequest {

    RefreshServiceAclsRequestProto proto =
        RefreshServiceAclsRequestProto.getDefaultInstance();
    RefreshServiceAclsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshServiceAclsRequestPBImpl() {
        builder = RefreshServiceAclsRequestProto.newBuilder();
    }

    @Override
    public boolean equals(Object other) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
public RefreshServiceAclsRequestPBImpl(  
    RefreshServiceAclsRequestProto proto) {
  this.proto = proto;
  viaProto = true;
}

public RefreshServiceAclsRequestProto getProto() {
  proto = viaProto ? proto : builder.build();
  viaProto = true;
  return proto;
}

@Override
public int hashCode() {
  return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
  if (other == null)
      return false;
  if (other.getClass().isAssignableFrom(this.getClass())) {
      return this.getProto().equals(this.getClass().cast(other).getProto());
  }
  return false;
}

@Override
public String toString() {
  return TextFormat.shortDebugString(getProto());
}

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 */
package org.apache.hadoop.yarn.server.api.impl.pb.service;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.server.api.ResourceManagerAdministrationProtocolPB;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshAdminAclsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshAdminAclsResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshNodesRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshNodesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshQueuesRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshQueuesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshServiceAclsRequestPBImpl;

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*/
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshServiceAclsResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsResponsePBImpl;

import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ResourceManagerAdministrationProtocolPBServiceImpl implements
  ResourceManagerAdministrationProtocolPB {

  private ResourceManagerAdministrationProtocol real;

  public ResourceManagerAdministrationProtocolPBServiceImpl(ResourceManagerAdministrationProtocol impl) {
    this.real = impl;
  }

  @Override
  public RefreshQueuesResponseProto refreshQueues(RpcController controller,
    RefreshQueuesRequestProto proto) throws ServiceException {
    RefreshQueuesRequestPBImpl request = new RefreshQueuesRequestPBImpl(proto);
    try {
      RefreshQueuesResponse response = real.refreshQueues(request);
      return ((RefreshQueuesResponsePBImpl)response).getProto();
    } catch (YarnException e) {
      throw new ServiceException(e);
    } catch (IOException e) {
      throw new ServiceException(e);
    }
  }

  @Override
  public RefreshAdminAclsResponseProto refreshAdminAcls(RpcController controller,
    RefreshAdminAclsRequestProto proto) throws ServiceException {
    RefreshAdminAclsRequestPBImpl request = new RefreshAdminAclsRequestPBImpl(proto);
    try {
      RefreshAdminAclsResponse response = real.refreshAdminAcls(request);
      return ((RefreshAdminAclsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
      throw new ServiceException(e);
    } catch (IOException e) {
      throw new ServiceException(e);
    }
  }


@Override
public RefreshNodesResponseProto refreshNodes(RpcController controller, 
    RefreshNodesRequestProto proto) throws ServiceException {
    RefreshNodesRequestPBImpl request = new RefreshNodesRequestPBImpl(proto);
    try {
        RefreshNodesResponse response = real.refreshNodes(request);
        return ((RefreshNodesResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RefreshSuperUserGroupsConfigurationResponseProto
    refreshSuperUserGroupsConfiguration(
    RpcController controller,
    RefreshSuperUserGroupsConfigurationRequestProto proto)
    throws ServiceException {
    RefreshSuperUserGroupsConfigurationRequestPBImpl request = 
        new RefreshSuperUserGroupsConfigurationRequestPBImpl(proto);
    try {
        RefreshSuperUserGroupsConfigurationResponse response =
            real.refreshSuperUserGroupsConfiguration(request);
        return ((RefreshSuperUserGroupsConfigurationResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RefreshUserToGroupsMappingsResponseProto
    refreshUserToGroupsMappings(
    RpcController controller, RefreshUserToGroupsMappingsRequestProto proto)
    throws ServiceException {
    RefreshUserToGroupsMappingsRequestPBImpl request = 
        new RefreshUserToGroupsMappingsRequestPBImpl(proto);
    try {
        RefreshUserToGroupsMappingsResponse response =
            real.refreshUserToGroupsMappings(request);
        return ((RefreshUserToGroupsMappingsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}
@Override
public RefreshServiceAclsResponseProto refreshServiceAcls(
    RpcController controller, RefreshServiceAclsRequestProto proto)
    throws ServiceException {
    RefreshServiceAclsRequestPBImpl request =
        new RefreshServiceAclsRequestPBImpl(proto);
    try {
        RefreshServiceAclsResponse response =
            real.refreshServiceAcls(request);
        return ((RefreshServiceAclsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public GetGroupsForUserResponseProto getGroupsForUser(
    RpcController controller, GetGroupsForUserRequestProto request)
    throws ServiceException {
    String user = request.getUser();
    try {
        String[] groups = real.getGroupsForUser(user);
        GetGroupsForUserResponseProto.Builder responseBuilder =
            GetGroupsForUserResponseProto.newBuilder();
        for (String group : groups) {
            responseBuilder.addGroups(group);
        }
        return responseBuilder.build();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

} /*
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*/

package org.apache.hadoop.yarn.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateRequest;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterRequest;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterRequest;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
@Private
public class ApplicationMasterProtocolPBClientImpl implements ApplicationMasterProtocol, Closeable {

import com.google.protobuf.ServiceException;

@Private
public class ApplicationMasterProtocolPBClientImpl implements ApplicationMasterProtocol, Closeable {

private ApplicationMasterProtocolPB proxy;

public ApplicationMasterProtocolPBClientImpl(long clientVersion, InetSocketAddress addr,
        Configuration conf) throws IOException {
    RPC.setProtocolEngine(conf, ApplicationMasterProtocolPB.class, ProtobufRpcEngine.class);
    proxy =
        (ApplicationMasterProtocolPB) RPC.getProxy(ApplicationMasterProtocolPB.class, clientVersion,
            addr, conf);
}

@Override
public void close() {
    if (this.proxy != null) {
        RPC.stopProxy(this.proxy);
    }
}

@Override
public AllocateResponse allocate(AllocateRequest request)
        throws YarnException, IOException {
    AllocateRequestProto requestProto =
        ((AllocateRequestPBImpl) request).getProto();
    try {
        return new AllocateResponsePBImpl(proxy.allocate(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public FinishApplicationMasterResponse finishApplicationMaster(
        FinishApplicationMasterRequest request) throws YarnException,
        IOException {
    FinishApplicationMasterRequestProto requestProto =
        ((FinishApplicationMasterRequestPBImpl) request).getProto();
    try {
        return new FinishApplicationMasterResponsePBImpl(
            proxy.finishApplicationMaster(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RegisterApplicationMasterResponse registerApplicationMaster(
        RegisterApplicationMasterRequest request) throws YarnException,
IOException {  
  RegisterApplicationMasterRequestProto requestProto =  
      ((RegisterApplicationMasterRequestPBImpl) request).getProto();  
  try {  
    return new RegisterApplicationMasterResponsePBImpl(  
        proxy.registerApplicationMaster(null, requestProto));  
  } catch (ServiceException e) {  
    RPCUtil.unwrapAndThrowException(e);  
    return null;  
  }  
}  
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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;  
import org.apache.hadoop.yarn.api.records.ApplicationReport;  
import com.google.protobuf.TextFormat;  

@Private  
@Unstable  
public class GetApplicationReportResponsePBImpl extends GetApplicationReportResponse {  
GetApplicationReportResponseProtoOrBuilder proto = GetApplicationReportResponseProto.getDefaultInstance();
GetApplicationReportResponseProto.Builder builder = null;
boolean viaProto = false;

private ApplicationReport applicationReport = null;

public GetApplicationReportResponsePBImpl() {
    builder = GetApplicationReportResponseProto.newBuilder();
}

public GetApplicationReportResponsePBImpl(GetApplicationReportResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetApplicationReportResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationReport != null) {
        builder.setApplicationReport(convertToProtoFormat(this.applicationReport));
    }
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationReportResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationReport getApplicationReport() {
    if (this.applicationReport != null) {
        return this.applicationReport;
    }
    if (!p.hasApplicationReport()) {
        return null;
    }
    this.applicationReport = convertFromProtoFormat(p.getApplicationReport());
    return this.applicationReport;
}

@Override
public void setApplicationReport(ApplicationReport applicationMaster) {
    maybeInitBuilder();
    if (applicationMaster == null)
        builder.clearApplicationReport();
    this.applicationReport = applicationMaster;
}

private ApplicationReportPBImpl convertFromProtoFormat(ApplicationReportProto p) {
    return new ApplicationReportPBImpl(p);
}

private ApplicationReportProto convertToProtoFormat(ApplicationReport t) {
    return ((ApplicationReportPBImpl)t).getProto();
}
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 */

package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.PreemptionResourceRequest;
import org.apache.hadoop.yarn.api.records.ResourceRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class PreemptionResourceRequestPBImpl extends PreemptionResourceRequest {

    PreemptionResourceRequestProto proto =
            PreemptionResourceRequestProto.getDefaultInstance();
    PreemptionResourceRequestProto.Builder builder = null;
    boolean viaProto = false;
    private ResourceRequest rr;

    public PreemptionResourceRequestPBImpl() {
        builder = PreemptionResourceRequestProto.newBuilder();
    }

    public PreemptionResourceRequestPBImpl(PreemptionResourceRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    import org.apache.hadoop.classification.InterfaceAudience.Private;
    import org.apache.hadoop.yarn.api.records.PreemptionResourceRequest;
    import org.apache.hadoop.yarn.api.records.ResourceRequest;

    import com.google.protobuf.TextFormat;

    @Private
    @Unstable
    public class PreemptionResourceRequestPBImpl extends PreemptionResourceRequest {

        PreemptionResourceRequestProto proto =
                PreemptionResourceRequestProto.getDefaultInstance();
        PreemptionResourceRequestProto.Builder builder = null;
        boolean viaProto = false;
        private ResourceRequest rr;

        public PreemptionResourceRequestPBImpl() {
            builder = PreemptionResourceRequestProto.newBuilder();
        }

        public PreemptionResourceRequestPBImpl(PreemptionResourceRequestProto proto) {
            this.proto = proto;
            viaProto = true;
        }
public synchronized PreemptionResourceRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (rr != null) {
        builder.setResource(convertToProtoFormat(rr));
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = PreemptionResourceRequestProto.newBuilder(proto);
    }
    viaProto = false;
}
@Override
public synchronized ResourceRequest getResourceRequest() {
  PreemptionResourceRequestProtoOrBuilder p = viaProto ? proto : builder;
  if (rr != null) {
    return rr;
  }
  if (!p.hasResource()) {
    return null;
  }
  rr = convertFromProtoFormat(p.getResource());
  return rr;
}

@Override
public synchronized void setResourceRequest(final ResourceRequest rr) {
  maybeInitBuilder();
  if (null == rr) {
    builder.clearResource();
  }
  this.rr = rr;
}

private ResourceRequestPBImpl convertFromProtoFormat(ResourceRequestProto p) {
  return new ResourceRequestPBImpl(p);
}

private ResourceRequestProto convertToProtoFormat(ResourceRequest t) {
  return ((ResourceRequestPBImpl)t).getProto();
}

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 */
package org.apache.hadoop.yarn.webapp.log;

import static org.apache.hadoop.yarn.webapp.YarnWebParams.APP_OWNER;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.CONTAINER_ID;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.CONTAINER_LOG_TYPE;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.ENTITY_STRING;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.NM_NODENAME;

import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.logaggregation.AggregatedLogFormat;
import org.apache.hadoop.yarn.logaggregation.LogAggregationUtils;
import org.apache.hadoop.yarn.server.security.ApplicationACLsManager;
import org.apache.hadoop.yarn.util.ConverterUtils;
import org.apache.hadoop.yarn.webapp.hamlet.Hamlet;
import org.apache.hadoop.yarn.webapp.view.HtmlBlock;
import com.google.inject.Inject;

@InterfaceAudience.LimitedPrivate({"YARN", "MapReduce"})
public class AggregatedLogsBlock extends HtmlBlock {

private final Configuration conf;

@Inject
AggregatedLogsBlock(Configuration conf) {
    this.conf = conf;
}

@Override
protected void render(Block html) {
    ContainerId containerId = verifyAndGetContainerId(html);
    NodeId nodeId = verifyAndGetNodeId(html);
    String appOwner = verifyAndGetAppOwner(html);

    // Further logic for rendering the aggregated logs
}
LogLimits logLimits = verifyAndGetLogLimits(html);
if (containerId == null || nodeId == null || appOwner == null
    || appOwner.isEmpty() || logLimits == null) {
    return;
}

ApplicationId applicationId =
    containerId.getApplicationAttemptId().getApplicationId();
String logEntity = $(ENTITY_STRING);
if (logEntity == null || logEntity.isEmpty()) {
    logEntity = containerId.toString();
}

if (!conf.getBoolean(YarnConfiguration.LOG_AGGREGATION_ENABLED,
    YarnConfiguration.DEFAULT_LOG_AGGREGATION_ENABLED)) {
    html.h1()
    ._("Aggregation is not enabled. Try the nodemanager at "+ nodeId)
    ._();
    return;
}

Path remoteRootLogDir =
    new Path(conf.get(YarnConfiguration.NM_REMOTE_APP_LOG_DIR,
    YarnConfiguration.DEFAULT_NM_REMOTE_APP_LOG_DIR));
AggregatedLogFormat.LogReader reader = null;
try {
    reader =
        new AggregatedLogFormat.LogReader(conf,
            LogAggregationUtils.getRemoteNodeLogFileForApp(
                remoteRootLogDir, applicationId, appOwner, nodeId,
                LogAggregationUtils.getRemoteNodeLogDirSuffix(conf)));
} catch (FileNotFoundException e) {
    html.h1()
    ._("Logs not available for ")
    + logEntity
    + ". Aggregation may not be complete, 
    + "Check back later or try the nodemanager at 
    + nodeId)._();
    return;
} catch (IOException e) {
    html.h1()._("Error getting logs for "+ logEntity)._();
    LOG.error("Error getting logs for "+ logEntity, e);
    return;
}

String owner = null;
Map<ApplicationAccessType, String> appAcls = null;
try {
    owner = reader.getApplicationOwner();
    appAcls = reader.getApplicationAcls();
} catch (IOException e) {
    html.h1()._("Error getting logs for " + logEntity)._();
    LOG.error("Error getting logs for " + logEntity, e);
    return;
}
ApplicationACLsManager aclsManager = new ApplicationACLsManager(conf);
aclsManager.addApplication(applicationId, appAcls);

String remoteUser = request().getRemoteUser();
UserGroupInformation callerUGI = null;
if (remoteUser != null) {
    callerUGI = UserGroupInformation.createRemoteUser(remoteUser);
}
if (callerUGI != null && !aclsManager.checkAccess(callerUGI, ApplicationAccessType.VIEW_APP, owner, applicationId)) {
    html.h1()
        .(_("User [" + remoteUser
            + "] is not authorized to view the logs for " + logEntity)._());
    return;
}

String desiredLogType = $(CONTAINER_LOG_TYPE);
try {
    AggregatedLogFormat.ContainerLogsReader logReader =
        reader.getContainerLogsReader(containerId);
    if (logReader == null) {
        html.h1()._("Logs not available for " + logEntity
                + ". Could be caused by the retention policy")._();
        return;
    }
    boolean foundLog = readContainerLogs(html, logReader, logLimits, desiredLogType);

    if (!foundLog) {
        if (desiredLogType.isEmpty()) {
            html.h1("No logs available for container " + containerId.toString());
        } else {
            html.h1("Unable to locate " + desiredLogType
                + " log for container " + containerId.toString());
        }
        return;
    }
}
Open Source Used In Tetration 3.5.1 37672
} catch (IOException e) {
html.h1()._("Error getting logs for " + logEntity)._();
LOG.error("Error getting logs for " + logEntity, e);
return;
}
}
private boolean readContainerLogs(Block html,
AggregatedLogFormat.ContainerLogsReader logReader, LogLimits logLimits,
String desiredLogType) throws IOException {
int bufferSize = 65536;
char[] cbuf = new char[bufferSize];
boolean foundLog = false;
String logType = logReader.nextLog();
while (logType != null) {
if (desiredLogType == null || desiredLogType.isEmpty()
|| desiredLogType.equals(logType)) {
long logLength = logReader.getCurrentLogLength();
if (foundLog) {
html.pre()._("\n\n")._();
}
html.p()._("Log Type: " + logType)._();
html.p()._("Log Length: " + Long.toString(logLength))._();
long start = logLimits.start < 0
? logLength + logLimits.start : logLimits.start;
start = start < 0 ? 0 : start;
start = start > logLength ? logLength : start;
long end = logLimits.end < 0
? logLength + logLimits.end : logLimits.end;
end = end < 0 ? 0 : end;
end = end > logLength ? logLength : end;
end = end < start ? start : end;
long toRead = end - start;
if (toRead < logLength) {
html.p()._("Showing " + toRead + " bytes of " + logLength
+ " total. Click ")
.a(url("logs", $(NM_NODENAME), $(CONTAINER_ID),
$(ENTITY_STRING), $(APP_OWNER),
logType, "?start=0"), "here").
_(" for the full log.")._();
}
long totalSkipped = 0;

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while (totalSkipped < start) {
    long ret = logReader.skip(start - totalSkipped);
    if (ret < 0) {
        throw new IOException("Premature EOF from container log");
    }
    totalSkipped += ret;
}

int len = 0;
int currentToRead = toRead > bufferSize ? bufferSize : (int) toRead;
PRE<Hamlet> pre = html.pre();

while (toRead > 0 && (len = logReader.read(cbuf, 0, currentToRead)) > 0) {
    pre._(new String(cbuf, 0, len));
    toRead = toRead - len;
    currentToRead = toRead > bufferSize ? bufferSize : (int) toRead;
}

pre._();
foundLog = true;
}

logType = logReader.nextLog();
}

return foundLog;
}

private ContainerId verifyAndGetContainerId(Block html) {
    String containerIdStr = $(CONTAINER_ID);
    if (containerIdStr == null || containerIdStr.isEmpty()) {
        html.h1()._("Cannot get container logs without a ContainerId")._();
        return null;
    }
    ContainerId containerId = null;
    try {
        containerId = ConverterUtils.toContainerId(containerIdStr);
    } catch (IllegalArgumentException e) {
        html.h1()._("Cannot get container logs for invalid containerId:")._(
            " + containerIdStr)._();
        return null;
    }
    return containerId;
}

private NodeId verifyAndGetNodeId(Block html) {
String nodeIdStr = $(NM_NODENAME);
if (nodeIdStr == null || nodeIdStr.isEmpty()) {
html.h1()._("Cannot get container logs without a NodeId")._();
return null;
}
NodeId nodeId = null;
try {
nodeId = ConverterUtils.toNodeId(nodeIdStr);
} catch (IllegalArgumentException e) {
html.h1()._("Cannot get container logs. Invalid nodeId: " + nodeIdStr)
._();
return null;
}
return nodeId;
}
private String verifyAndGetAppOwner(Block html) {
String appOwner = $(APP_OWNER);
if (appOwner == null || appOwner.isEmpty()) {
html.h1()._("Cannot get container logs without an app owner")._();
}
return appOwner;
}
private static class LogLimits {
long start;
long end;
}
private LogLimits verifyAndGetLogLimits(Block html) {
long start = -4096;
long end = Long.MAX_VALUE;
boolean isValid = true;
String startStr = $("start");
if (startStr != null && !startStr.isEmpty()) {
try {
start = Long.parseLong(startStr);
} catch (NumberFormatException e) {
isValid = false;
html.h1()._("Invalid log start value: " + startStr)._();
}
}
String endStr = $("end");
if (endStr != null && !endStr.isEmpty()) {
try {
end = Long.parseLong(endStr);

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if (!isValid) {
    return null;
}

LogLimits limits = new LogLimits();
limits.start = start;
limits.end = end;
return limits;
}
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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetDelegationTokenRequestPBImpl extends GetDelegationTokenRequest {

    String renewer;
}
GetDelegationTokenRequestProto proto =
    GetDelegationTokenRequestProto.getDefaultInstance();
GetDelegationTokenRequestProto.Builder builder = null;
boolean viaProto = false;

public GetDelegationTokenRequestPBImpl() {
    builder = GetDelegationTokenRequestProto.newBuilder();
}

public GetDelegationTokenRequestPBImpl (GetDelegationTokenRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public String getRenewer(){
    GetDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.renewer != null) {    
        return this.renewer;
    }    
    this.renewer = p.getRenewer();
    return this.renewer;
}

@Override
public void setRenewer(String renewer) {
    maybeInitBuilder();
    if (renewer == null)
        builder.clearRenewer();
    this.renewer = renewer;
}

public GetDelegationTokenRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    return getProto().isEqual(other);
}

@override
public boolean equals(Object other) {
    return getProto().isEqual(other);
}
if (other == null)
    return false;
if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
} return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (renewer != null) {
        builder.setRenewer(this.renewer);
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

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 */

definition package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationRequest;
import org.apache.hadoop.yarn.api.records.ApplicationSubmissionContext;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationSubmissionContextPBImpl;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.SubmitApplicationRequestProto;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.SubmitApplicationRequestProtoOrBuilder;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class SubmitApplicationRequestPBImpl extends SubmitApplicationRequest {
  SubmitApplicationRequestProto proto = SubmitApplicationRequestProto.getDefaultInstance();
  SubmitApplicationRequestProto.Builder builder = null;
  boolean viaProto = false;

  private ApplicationSubmissionContext applicationSubmissionContext = null;

  public SubmitApplicationRequestPBImpl() {
    builder = SubmitApplicationRequestProto.newBuilder();
  }

  public SubmitApplicationRequestPBImpl(SubmitApplicationRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public SubmitApplicationRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }
}
@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationSubmissionContext != null) {
        builder.setApplicationSubmissionContext(convertToProtoFormat(this.applicationSubmissionContext));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = SubmitApplicationRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationSubmissionContext getApplicationSubmissionContext() {
    SubmitApplicationRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.applicationSubmissionContext != null) {
        return this.applicationSubmissionContext;
    }
    if (!p.hasApplicationSubmissionContext()) {
        return null;
    }
    this.applicationSubmissionContext = convertFromProtoFormat(p.getApplicationSubmissionContext());
return this.applicationSubmissionContext;
}

@Override
public void setApplicationSubmissionContext(ApplicationSubmissionContext applicationSubmissionContext) {
  maybeInitBuilder();
  if (applicationSubmissionContext == null)
    builder.clearApplicationSubmissionContext();
  this.applicationSubmissionContext = applicationSubmissionContext;
}

private ApplicationSubmissionContextPBImpl convertFromProtoFormat(ApplicationSubmissionContextProto p) {
  return new ApplicationSubmissionContextPBImpl(p);
}

private ApplicationSubmissionContextProto convertToProtoFormat(ApplicationSubmissionContext t) {
  return ((ApplicationSubmissionContextPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsResponsePBImpl extends RefreshServiceAclsResponse {
  RefreshServiceAclsResponseProto proto =
      RefreshServiceAclsResponseProto.getDefaultInstance();
  RefreshServiceAclsResponseProto.Builder builder = null;
  boolean viaProto = false;

  public RefreshServiceAclsResponsePBImpl() {
    builder = RefreshServiceAclsResponseProto.newBuilder();
  }

  public RefreshServiceAclsResponsePBImpl(RefreshServiceAclsResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public RefreshServiceAclsResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public boolean equals(Object other) {
    if (other == null)
      return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
      return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
  }

  @Override
  public String toString() {
    return TextFormat.shortDebugString(getProto());
  }
}
package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshSuperUserGroupsConfigurationRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshSuperUserGroupsConfigurationRequestPBImpl
extends RefreshSuperUserGroupsConfigurationRequest {

    RefreshSuperUserGroupsConfigurationRequestProto proto =
    RefreshSuperUserGroupsConfigurationRequestProto.getDefaultInstance();
    RefreshSuperUserGroupsConfigurationRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshSuperUserGroupsConfigurationRequestPBImpl() {
        builder = RefreshSuperUserGroupsConfigurationRequestProto.newBuilder();
    }

    public RefreshSuperUserGroupsConfigurationRequestPBImpl(RefreshSuperUserGroupsConfigurationRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }
public RefreshSuperUserGroupsConfigurationRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsResponse;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshAdminAclsResponsePBImpl extends RefreshAdminAclsResponse {

    RefreshAdminAclsResponseProto proto = RefreshAdminAclsResponseProto.getDefaultInstance();
    RefreshAdminAclsResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshAdminAclsResponsePBImpl() {
        builder = RefreshAdminAclsResponseProto.newBuilder();
    }

    public RefreshAdminAclsResponsePBImpl(RefreshAdminAclsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshAdminAclsResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }
}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoRequest;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueInfoRequestPBImpl extends GetQueueInfoRequest {

GetQueueInfoRequestProto proto =
    GetQueueInfoRequestProto.getDefaultInstance();
GetQueueInfoRequestProto.Builder builder = null;
boolean viaProto = false;

public GetQueueInfoRequestPBImpl() {
    builder = GetQueueInfoRequestProto.newBuilder();
}

public GetQueueInfoRequestPBImpl(GetQueueInfoRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}
@Override
public boolean getIncludeApplications() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasIncludeApplications()) ? p.getIncludeApplications() : false;
}

@Override
public boolean getIncludeChildQueues() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasIncludeChildQueues()) ? p.getIncludeChildQueues() : false;
}

@Override
public String getQueueName() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasQueueName()) ? p.getQueueName() : null;
}

@Override
public boolean getRecursive() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasRecursive()) ? p.getRecursive() : false;
}

@Override
public void setIncludeApplications(boolean includeApplications) {
    maybeInitBuilder();
    builder.setIncludeApplications(includeApplications);
}

@Override
public void setIncludeChildQueues(boolean includeChildQueues) {
    maybeInitBuilder();
    builder.setIncludeChildQueues(includeChildQueues);
}

@Override
public void setQueueName(String queueName) {
    maybeInitBuilder();
    if (queueName == null) {
        builder.clearQueueName();
        return;
    }
    builder.setQueueName((queueName));
}

@Override
public void setRecursive(boolean recursive) {
maybeInitBuilder();
builder.setRecursive(recursive);
}

private void maybeInitBuilder() {
if (viaProto || builder == null) {
    builder = GetQueueInfoRequestProto.newBuilder(proto);
}
viaProto = false;
}

public GetQueueInfoRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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*/
package org.apache.hadoop.yarn.webapp.hamlet;
import com.google.common.base.Joiner;
import static com.google.common.base.Preconditions.*;
import com.google.common.base.Splitter;
import com.google.common.collect.Iterables;
import java.io.PrintWriter;
import java.util.EnumSet;
import static java.util.EnumSet.*;
import java.util.Iterator;
import static org.apache.commons.lang.StringEscapeUtils.*;
import static org.apache.hadoop.yarn.webapp.hamlet.HamletImpl.EOpt.*;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.yarn.webapp.SubView;
import org.apache.hadoop.yarn.webapp.WebAppException;

/**
* A simple unbuffered generic hamlet implementation.
*
* Zero copy but allocation on every element, which could be
* optimized to use a thread-local element pool.
*
* Prints HTML as it builds. So the order is important.
*/
@InterfaceAudience.Private
public class HamletImpl extends HamletSpec {
private static final String INDENT_CHARS = " ";
private static final Splitter SS = Splitter.on('.').
omitEmptyStrings().trimResults();
private static final Joiner SJ = Joiner.on(' ');
private static final Joiner CJ = Joiner.on(", ");
static final int S_ID = 0;
static final int S_CLASS = 1;
int nestLevel;
int indents; // number of indent() called. mostly for testing.
private final PrintWriter out;

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private final StringBuilder sb = new StringBuilder(); // not shared
private boolean wasInline = false;

/**
 * Element options. (whether it needs end tag, is inline etc.)
 */
public enum EOpt {
/** needs end(close) tag */
ENDTAG,
/** The content is inline */
INLINE,
/** The content is preformatted */
PRE
};

/**
 * The base class for elements
 * @param <T> type of the parent (containing) element for the element
 */
public class EImp<T extends _> implements _Child {
private final String name;
private final T parent; // short cut for parent element
private final EnumSet<EOpt> opts; // element options

private boolean started = false;
private boolean attrsClosed = false;

EImp(String name, T parent, EnumSet<EOpt> opts) {
    this.name = name;
    this.parent = parent;
    this.opts = opts;
}

@Override
public T _() {
    closeAttrs();
    --nestLevel;
    printEndTag(name, opts);
    return parent;
}

@Override
public T __() {
    closeAttrs();
    --nestLevel;
    printEndTag(name, opts);
    return parent;
}

protected void __p(boolean quote, Object... args) {
    closeAttrs();
    for (Object s : args) {
        if (!opts.contains(PRE)) {
            indent(opts);
        }
        out.print(quote ? escapeHtml(String.valueOf(s))
    }
}


protected void closeAttrs() {
    if (!attrsClosed) {
        startIfNeeded();
        ++nestLevel;
        out.print('>') ;
        if (!opts.contains(INLINE) && !opts.contains(PRE)) {
            out.println();
        }
        attrsClosed = true;
    }
}

protected void addAttr(String name, String value) {
    checkState(!attrsClosed, "attribute added after content");
    startIfNeeded();
    printAttr(name, value);
}

protected void addAttr(String name, Object value) {
    addAttr(name, String.valueOf(value));
}

protected void addMediaAttr(String name, EnumSet<Media> media) {
    // 6.13 comma-separated list
    addAttr(name, CJ.join(media));
}

protected void addRelAttr(String name, EnumSet<LinkType> types) {
    // 6.12 space-separated list
    addAttr(name, SJ.join(types));
}

private void startIfNeeded() {
    if (!started) {
        printStartTag(name, opts);
        started = true;
    }
}

protected void _v(Class<? extends SubView> cls) {
    closeAttrs();
    subView(cls);
}

protected void __v(String s) {
    if (!opts.contains(INLINE) && !opts.contains(PRE)) {
        out.println();
        return;
    }
    out.print(s);
}

protected void startIfNeeded() {
    if (!started) {
        printStartTag(name, opts);
        started = true;
    }
}

protected void __v(String s) {
    if (!opts.contains(INLINE) && !opts.contains(PRE)) {
        out.println();
        return;
    }
    out.print(s);
}
protected void _inline(boolean choice) {
    if (choice) {
        opts.add(INLINE);
    } else {
        opts.remove(INLINE);
    }
}

protected void _endTag(boolean choice) {
    if (choice) {
        opts.add(ENDTAG);
    } else {
        opts.remove(ENDTAG);
    }
}

protected void _pre(boolean choice) {
    if (choice) {
        opts.add(PRE);
    } else {
        opts.remove(PRE);
    }
}

public class Generic<T extends _> extends Elmp<T> implements PCData {
    Generic(String name, T parent, EnumSet<EOpt> opts) {
        super(name, parent, opts);
    }

    public Generic<T> _inline() {
        super._inline(true);
        return this;
    }

    public Generic<T> _noEndTag() {
        super._endTag(false);
        return this;
    }

    public Generic<T> _pre() {
        super._pre(true);
        return this;
    }
}
public Generic<T> _attr(String name, String value) {
    addAttr(name, value);
    return this;
}

public Generic<Generic<T>> _elem(String name, EnumSet<EOpt> opts) {
    closeAttrs();
    return new Generic<Generic<T>>(name, this, opts);
}

public Generic<Generic<T>> elem(String name) {
    return _elem(name, of(ENDTAG));
}

@Override
public Generic<T> _r(Object... lines) {
    _p(false, lines);
    return this;
}

@Override
public Generic<T> _p(Object... lines) {
    _p(true, lines);
    return this;
}

public HamletImpl(PrintWriter out, int nestLevel, boolean wasInline) {
    this.out = out;
    this.nestLevel = nestLevel;
    this.wasInline = wasInline;
}

public int nestLevel() {
    return nestLevel;
}

public boolean wasInline() {
    return wasInline;
}

public void setWasInline(boolean state) {
    wasInline = state;
}

public PrintWriter getWriter() {
    return out;
}
/**
 * Create a root-level generic element.
 * Mostly for testing purpose.
 * @param <T> type of the parent element
 * @param name of the element
 * @param opts @link EOpt element options
 * @return the element
 */

public <T extends _>
Generic<T> root(String name, EnumSet<EOpt> opts) {
    return new Generic<T>(name, null, opts);
}

public <T extends _> Generic<T> root(String name) {
    return root(name, of(ENDTAG));
}

protected void printStartTag(String name, EnumSet<EOpt> opts) {
    indent(opts);
    sb.setLength(0);
    out.print(sb.append('<').append(name).toString()); // for easier mock test
}

protected void indent(EnumSet<EOpt> opts) {
    if (opts.contains(INLINE) && wasInline) {
        return;
    }
    if (wasInline) {
        out.println();
    }
    wasInline = opts.contains(INLINE) || opts.contains(PRE);
    for (int i = 0; i < nestLevel; ++i) {
        out.print(INDENT_CHARS);
    }
    ++indents;
}

protected void printEndTag(String name, EnumSet<EOpt> opts) {
    if (!opts.contains(ENDTAG)) {
        return;
    }
    if (!opts.contains(PRE)) {
        indent(opts);
    } else {
        wasInline = opts.contains(INLINE);
    }
    sb.setLength(0);
out.print(sb.append("</").append(name).append(">").toString()); // ditto
if (!opts.contains(INLINE)) {
    out.println();
}

protected void printAttr(String name, String value) {
    sb.setLength(0);
    sb.append(' ').append(name);
    if (value != null) {
        sb.append("=").append(escapeHtml(value)).append("\"");
    }
    out.print(sb.toString());
}

/**
 * Sub-classes should override this to do something interesting.
 * @param cls the sub-view class
 */
protected void subView(Class<? extends SubView> cls) {
    indent(of(ENDTAG)); // not an inline view
    sb.setLength(0);
    out.print(sb.append('[').append(cls.getName()).append(']').toString());
    out.println();
}

/**
 * Parse selector into id and classes
 * @param selector in the form of (#id)?(.class)*
 * @return an two element array [id, "space-separated classes"].
 * Either element could be null.
 * @throws WebAppException when both are null or syntax error.
 */
public static String[] parseSelector(String selector) {
    String[] result = new String[]{null, null};
    Iterable<String> rs = SS.split(selector);
    Iterator<String> it = rs.iterator();
    if (it.hasNext()) {
        String maybeId = it.next();
        if (maybeId.charAt(0) == '#') {
            result[S_ID] = maybeId.substring(1);
            if (it.hasNext()) {
                result[S_CLASS] = SJ.join(Iterables.skip(rs, 1));
            }
        } else {
            result[S_CLASS] = SJ.join(rs);
        }
    }
    return result;
}
throw new WebAppException("Error parsing selector: "+ selector);

/**
 * Set id and/or class attributes for an element.
 * @param <E> type of the element
 * @param e the element
 * @param selector Haml form of "(#id)?(.class)*"
 * @return the element
 */
public static <E extends CoreAttrs> E setSelector(E e, String selector) {
    String[] res = parseSelector(selector);
    if (res[S_ID] != null) {
        e.$id(res[S_ID]);
    }
    if (res[S_CLASS] != null) {
        e.$class(res[S_CLASS]);
    }
    return e;
}

public static <E extends LINK> E setLinkHref(E e, String href) {
    if (href.endsWith(".css")) {
        e.$rel("stylesheet"); // required in html5
    }
    e.$href(href);
    return e;
}

public static <E extends SCRIPT> E setScriptSrc(E e, String src) {
    if (src.endsWith(".js")) {
        e.$type("text/javascript"); // required in html4
    }
    e.$src(src);
    return e;
}

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 */
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoResponse;
import org.apache.hadoop.yarn.api.records.QueueUserACLInfo;
import org.apache.hadoop.yarn.api.records.impl.pb.QueueUserACLInfoPBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueUserAclsInfoResponsePBImpl extends GetQueueUserAclsInfoResponse {

    List<QueueUserACLInfo> queueUserAclsInfoList;

    GetQueueUserAclsInfoResponseProto proto = GetQueueUserAclsInfoResponseProto.getDefaultInstance();
    GetQueueUserAclsInfoResponseProto.Builder builder = null;
    boolean viaProto = false;

    public GetQueueUserAclsInfoResponsePBImpl() {
        builder = GetQueueUserAclsInfoResponseProto.newBuilder();
    }

    public GetQueueUserAclsInfoResponsePBImpl(GetQueueUserAclsInfoResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    @Override
    public List<QueueUserACLInfo> getUserAclsInfoList() {
        if (viaProto) {
            return this.proto.getUserAclsInfoList();
        }
        if (builder == null) {
            builder = GetQueueUserAclsInfoResponseProto.newBuilder();
        }
        if (viaProto) {
            builder.addAllUserAclsInfoList(queueUserAclsInfoList);
        }
        return builder.build().getUserAclsInfoList();
    }

    @Override
    public String toString() {
        if (viaProto) {
            return this.proto.toString();
        }
        return builder.build().toString();
    }

    @Override
    public boolean equals(Object other) {
        if (other instanceof GetQueueUserAclsInfoResponse) {
            GetQueueUserAclsInfoResponse otherProto = (GetQueueUserAclsInfoResponse) other;
            return equalsProto(otherProto);}
        return false;
    }

    @Override
    public int hashCode() {
        return equalsProto((GetQueueUserAclsInfoResponse) super).hashCode();
    }

    private boolean equalsProto(GetQueueUserAclsInfoResponse otherProto) {
        return proto.equals(otherProto.proto);
    }

    public static void main(String[] args) {
        GetQueueUserAclsInfoResponseProto proto = GetQueueUserAclsInfoResponseProto.getDefaultInstance();
        builder.addAllUserAclsInfoList(queueUserAclsInfoList);
        GetQueueUserAclsInfoResponse response = GetQueueUserAclsInfoResponsePBImpl.newBuilder()
                .setUserAclsInfoList(queueUserAclsInfoList)
                .build();
    }
initLocalQueueUserAclsList();
return queueUserAclsInfoList;
}

@Override
public void setUserAclsInfoList(List<QueueUserACLInfo> queueUserAclsList) {
if (queueUserAclsList == null) {
    builder.clearQueueUserAcls();
}
this.queueUserAclsInfoList = queueUserAclsList;
}

public GetQueueUserAclsInfoResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
if (other == null)
    return false;
if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
if (this.queueUserAclsInfoList != null) {
    addLocalQueueUserACLInfosToProto();
}
}

private void mergeLocalToProto() {
if (viaProto)
maybeInitBuilder();
}
mergeLocalToBuilder();
proto = builder.build();
viaProto = true;
}

private void maybeInitBuilder() {
if (viaProto || builder == null) {
    builder = GetQueueUserAclsInfoResponseProto.newBuilder(proto);
}
viaProto = false;
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private void initLocalQueueUserAclsList() {
if (this.queueUserAclsInfoList != null) {
    return;
}
GetQueueUserAclsInfoResponseProtoOrBuilder p = viaProto ? proto : builder;
List<QueueUserACLInfoProto> list = p.getQueueUserAclsList();
queueUserAclsInfoList = new ArrayList<QueueUserACLInfo>();
for (QueueUserACLInfoProto a : list) {
    queueUserAclsInfoList.add(convertFromProtoFormat(a));
}
}

private void addLocalQueueUserACLInfosToProto() {
maybeInitBuilder();
builder.clearQueueUserAcls();
if (queueUserAclsInfoList == null)
    return;
Iterable<QueueUserACLInfoProto> iterable = new Iterable<QueueUserACLInfoProto>() {
    @Override
    public Iterator<QueueUserACLInfoProto> iterator() {
        @Override
        public boolean hasNext() {
            return iter.hasNext();
        }
        @Override
        public QueueUserACLInfoProto next() {
            return convertToProtoFormat(iter.next());
        }
    }
    public Iterator<QueueUserACLInfo> iter = queueUserAclsInfoList.iterator();
    };
    return iter.hasNext();
}
@Override
public void remove() {
    throw new UnsupportedOperationException();
}

private QueueUserACLInfoPBImpl convertFromProtoFormat(QueueUserACLInfoProto p) {
    return new QueueUserACLInfoPBImpl(p);
}

private QueueUserACLInfoProto convertToProtoFormat(QueueUserACLInfo t) {
    return ((QueueUserACLInfoPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.NodeId;
import com.google.common.base.Preconditions;

@Private
@Unstable
public class NodeIdPBImpl extends NodeId {
    NodeIdProto proto = null;
    NodeIdProto.Builder builder = null;

    public NodeIdPBImpl() {
        builder = NodeIdProto.newBuilder();
    }

    public NodeIdPBImpl(NodeIdProto proto) {
        this.proto = proto;
    }

    public NodeIdProto getProto() {
        return proto;
    }

    @Override
    public String getHost() {
        Preconditions.checkNotNull(proto);
        return proto.getHost();
    }

    @Override
    protected void setHost(String host) {
        Preconditions.checkNotNull(builder);
        builder.setHost(host);
    }

    @Override
    public int getPort() {
        Preconditions.checkNotNull(proto);
        return proto.getPort();
    }

    @Override
    protected void setPort(int port) {
        Preconditions.checkNotNull(builder);
        builder.setPort(port);
    }

    @Override
    protected void build() {
        proto = builder.build();
        builder = null;
    }
}
package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshNodesRequestPBImpl extends RefreshNodesRequest {

  RefreshNodesRequestProto proto = RefreshNodesRequestProto.getDefaultInstance();
  RefreshNodesRequestProto.Builder builder = null;
  boolean viaProto = false;

  public RefreshNodesRequestPBImpl() {
    builder = RefreshNodesRequestProto.newBuilder();
  }

  public RefreshNodesRequestPBImpl(RefreshNodesRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public RefreshNodesRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    return proto;
  }
}
viaProto = true;
return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.impl.pb.service;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;
import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.YarnServiceProtos.RegisterApplicationMasterRequestProto;
import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ApplicationMasterProtocolPBServiceImpl implements ApplicationMasterProtocolPB {
  
  private ApplicationMasterProtocol real;

  public ApplicationMasterProtocolPBServiceImpl(ApplicationMasterProtocol impl) {
    this.real = impl;
  }

  @Override
  public AllocateResponseProto allocate(RpcController arg0,
    AllocateRequestProto proto) throws ServiceException {
    AllocateRequestPBImpl request = new AllocateRequestPBImpl(proto);
    try {
      AllocateResponse response = real.allocate(request);
      return ((AllocateResponsePBImpl)response).getProto();
    } catch (YarnException e) {
      throw new ServiceException(e);
    } catch (IOException e) {
      throw new ServiceException(e);
    }
  }

  @Override
  public FinishApplicationMasterResponseProto finishApplicationMaster(
    RpcController arg0, FinishApplicationMasterRequestProto proto)
  throws ServiceException {

  }

  @Override
  public FinishApplicationMasterResponseProto finishApplicationMaster(
    RpcController arg0, FinishApplicationMasterRequestProto proto)
  throws ServiceException {

}
FinishApplicationMasterRequestPBImpl request = new FinishApplicationMasterRequestPBImpl(proto);
try {
    FinishApplicationMasterResponse response = real.finishApplicationMaster(request);
    return ((FinishApplicationMasterResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public RegisterApplicationMasterResponseProto registerApplicationMaster(
    RpcController arg0, RegisterApplicationMasterRequestProto proto)
throws ServiceException {
    RegisterApplicationMasterRequestPBImpl request = new RegisterApplicationMasterRequestPBImpl(proto);
    try {
        RegisterApplicationMasterResponse response = real.registerApplicationMaster(request);
        return ((RegisterApplicationMasterResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

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/*/
import java.util.Iterator;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateRequest;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ResourceBlacklistRequest;
import org.apache.hadoop.yarn.api.records.ResourceRequest;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class AllocateRequestPBImpl extends AllocateRequest {
    AllocateRequestProto proto = AllocateRequestProto.getDefaultInstance();
    AllocateRequestProto.Builder builder = null;
    boolean viaProto = false;

    public AllocateRequestPBImpl() {
        builder = AllocateRequestProto.newBuilder();
    }

    public AllocateRequestPBImpl(AllocateRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public AllocateRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }
}
@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.ask != null) {
        addAsksToProto();
    }
    if (this.release != null) {
        addReleasesToProto();
    }
    if (this.blacklistRequest != null) {
        builder.setBlacklistRequest(convertToProtoFormat(this.blacklistRequest));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = AllocateRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@override
public int getResponseId() {
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getResponseId();
}

@Override
public void setResponseId(int id) {
    maybeInitBuilder();
    builder.setResponseId(id);
}

@Override
public float getProgress() {
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getProgress();
}

@Override
public void setProgress(float progress) {
    maybeInitBuilder();
    builder.setProgress(progress);
}

@Override
public List<ResourceRequest> getAskList() {
    initAsks();
    return this.ask;
}

@Override
public void setAskList(final List<ResourceRequest> resourceRequests) {
    if(resourceRequests == null) {
        return;
    }
    initAsks();
    this.ask.clear();
    this.ask.addAll(resourceRequests);
}

@Override
public ResourceBlacklistRequest getResourceBlacklistRequest() {
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.blacklistRequest != null) {
        return this.blacklistRequest;
    }
    if (!p.hasBlacklistRequest()) {
        return null;
    }
    return new ResourceBlacklistRequest();
}

Once
this.blacklistRequest = convertFromProtoFormat(p.getBlacklistRequest());
return this.blacklistRequest;
}

@Override
public void setResourceBlacklistRequest(ResourceBlacklistRequest blacklistRequest) {
maybeInitBuilder();
if (blacklistRequest == null) {
    builder.clearBlacklistRequest();
}
this.blacklistRequest = blacklistRequest;
}

private void initAsks() {
    if (this.ask != null) {
        return;
    }
AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
List<ResourceRequestProto> list = p.getAskList();
this.ask = new ArrayList<ResourceRequest>();

for (ResourceRequestProto c : list) {
    this.ask.add(convertFromProtoFormat(c));
}
}

private void addAsksToProto() {
    maybeInitBuilder();
bUILDER.clearAsk();
    if (ask == null)
        return;
    Iterable<ResourceRequestProto> iterable = new Iterable<ResourceRequestProto>() {
        @Override
        public Iterator<ResourceRequestProto> iterator() {
            return new Iterator<ResourceRequestProto>() {
                Iterator<ResourceRequestProto> iter = ask.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ResourceRequestProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            }
        }
    }
    Iterator<ResourceRequestProto> iter = ask.iterator();

    @Override
    public boolean hasNext() {
        return iter.hasNext();
    }

    @Override
    public ResourceRequestProto next() {
        return convertToProtoFormat(iter.next());
    }
}
@Override
public void remove() {
    throw new UnsupportedOperationException();
}

@Override
public void setReleaseList(List<ContainerId> releaseContainers) {
    if(releaseContainers == null) {
        return;
    }
    initReleases();
    this.release.clear();
    this.release.addAll(releaseContainers);
}

private void initReleases() {
    if (this.release != null) {
        return;
    }
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> list = p.getReleaseList();
    this.release = new ArrayList<ContainerId>();
    for (ContainerIdProto c : list) {
        this.release.add(convertFromProtoFormat(c));
    }
}

private void addReleasesToProto() {
    maybeInitBuilder();
    builder.clearRelease();
    if (release == null)
        return;
    Iterable<ContainerIdProto> iterable = new Iterable<ContainerIdProto>() {
        @Override
        public Iterator<ContainerIdProto> iterator() {
            return new Iterator<ContainerIdProto>() {

                @Override
                public boolean hasNext() {
                    return true;
                }

                @Override
                public ContainerIdProto next() {
                    return null;
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            }
        }
    }
}
Iterator<ContainerId> iter = release.iterator();

@Interface
public boolean hasNext() {
    return iter.hasNext();
}

@Interface
public ContainerIdProto next() {
    return convertToProtoFormat(iter.next());
}

@Interface
public void remove() {
    throw new UnsupportedOperationException();
}

builder.addAllRelease(iterable);

private ResourceRequestPBImpl convertFromProtoFormat(ResourceRequestProto p) {
    return new ResourceRequestPBImpl(p);
}

private ResourceRequestProto convertToProtoFormat(ResourceRequest t) {
    return ((ResourceRequestPBImpl)t).getProto();
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl)t).getProto();
}

private ResourceBlacklistRequestPBImpl convertFromProtoFormat(ResourceBlacklistRequestProto p) {
    return new ResourceBlacklistRequestPBImpl(p);
}

private ResourceBlacklistRequestProto convertToProtoFormat(ResourceBlacklistRequest t) {
    return ((ResourceBlacklistRequestPBImpl)t).getProto();
}
package org.apache.hadoop.yarn.api.records.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ApplicationReport;
import org.apache.hadoop.yarn.api.records.QueueInfo;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProto;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProtoOrBuilder;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class QueueInfoPBImpl extends QueueInfo {

    QueueInfoProto proto = QueueInfoProto.getDefaultInstance();
    QueueInfoProto.Builder builder = null;
    boolean viaProto = false;
    List<ApplicationReport> applicationsList;

    }  
*/

package org.apache.hadoop.yarn.api.records.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ApplicationReport;
import org.apache.hadoop.yarn.api.records.QueueInfo;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProto;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProtoOrBuilder;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class QueueInfoPBImpl extends QueueInfo {

    QueueInfoProto proto = QueueInfoProto.getDefaultInstance();
    QueueInfoProto.Builder builder = null;
    boolean viaProto = false;
    List<ApplicationReport> applicationsList;

    }  
*/
List<QueueInfo> childQueuesList;

public QueueInfoPBImpl() {
    builder = QueueInfoProto.newBuilder();
}

public QueueInfoPBImpl(QueueInfoProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public List<ApplicationReport> getApplications() {
    initLocalApplicationsList();
    return this.applicationsList;
}

@Override
public float getCapacity() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasCapacity()) ? p.getCapacity() : -1;
}

@Override
public List<QueueInfo> getChildQueues() {
    initLocalChildQueuesList();
    return this.childQueuesList;
}

@Override
public float getCurrentCapacity() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasCurrentCapacity()) ? p.getCurrentCapacity() : 0;
}

@Override
public float getMaximumCapacity() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasMaximumCapacity()) ? p.getMaximumCapacity() : -1;
}

@Override
public String getQueueName() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasQueueName()) ? p.getQueueName() : null;
}

@Override
public QueueState getQueueState() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasState()) {
        return null;
    }
    return convertFromProtoFormat(p.getState());
}

@Override
public void setApplications(List<ApplicationReport> applications) {
    if (applications == null) {
        builder.clearApplications();
    }
    this.applicationsList = applications;
}

@Override
public void setCapacity(float capacity) {
    maybeInitBuilder();
    builder.setCapacity(capacity);
}

@Override
public void setChildQueues(List<QueueInfo> childQueues) {
    if (childQueues == null) {
        builder.clearChildQueues();
    }
    this.childQueuesList = childQueues;
}

@Override
public void setCurrentCapacity(float currentCapacity) {
    maybeInitBuilder();
    builder.setCurrentCapacity(currentCapacity);
}

@Override
public void setMaximumCapacity(float maximumCapacity) {
    maybeInitBuilder();
    builder.setMaximumCapacity(maximumCapacity);
}

@Override
public void setQueueName(String queueName) {
    maybeInitBuilder();
    if (queueName == null) {
        builder.clearQueueName();
        return;
    }
builder.setQueueName(queueName);
}

@Override
public void setQueueState(QueueState queueState) {
    maybeInitBuilder();
    if (queueState == null) {
        builder.clearState();
        return;
    }
    builder.setState(convertToProtoFormat(queueState));
}

public QueueInfoProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void initLocalApplicationsList() {
    if (this.applicationsList != null) {
        return;
    }
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    List<ApplicationReportProto> list = p.getApplicationsList();
    applicationsList = new ArrayList<ApplicationReport>();
for (ApplicationReportProto a : list) {
    applicationsList.add(convertFromProtoFormat(a));
}

private void addApplicationsToProto() {
    maybeInitBuilder();
    builder.clearApplications();
    if (applicationsList == null)
        return;
    Iterable<ApplicationReportProto> iterable = new Iterable<ApplicationReportProto>() {
        @Override
        public Iterator<ApplicationReportProto> iterator() {
            return new Iterator<ApplicationReportProto>() {
                Iterator<ApplicationReport> iter = applicationsList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ApplicationReportProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
        return iterable;
    }

    builder.addAllApplications(iterable);
}

private void initLocalChildQueuesList() {
    if (this.childQueuesList != null)
        return;
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    List<QueueInfoProto> list = p.getChildQueuesList();
    childQueuesList = new ArrayList<QueueInfo>();
for (QueueInfoProto a : list) {
    childQueuesList.add(convertFromProtoFormat(a));
}

private void addChildQueuesInfoToProto() {
    maybeInitBuilder();
    builder.clearChildQueues();
    if (childQueuesList == null)
        return;
    Iterable<QueueInfoProto> iterable = new Iterable<QueueInfoProto>() {
        @Override
        public Iterator<QueueInfoProto> iterator() {
            return new Iterator<QueueInfoProto>() {
                Iterator<QueueInfo> iter = childQueuesList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public QueueInfoProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
    builder.addAllChildQueues(iterable);
}

private void mergeLocalToBuilder() {
    if (this.childQueuesList != null) {
        addChildQueuesInfoToProto();
    }
    if (this.applicationsList != null) {
        addApplicationsToProto();
    }
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = QueueInfoProto.newBuilder(proto);
    }
    viaProto = false;
}

private ApplicationReportPBImpl convertFromProtoFormat(ApplicationReportProto a) {
    return new ApplicationReportPBImpl(a);
}

private ApplicationReportProto convertToProtoFormat(ApplicationReport t) {
    return ((ApplicationReportPBImpl)t).getProto();
}

private QueueInfoPBImpl convertFromProtoFormat(QueueInfoProto a) {
    return new QueueInfoPBImpl(a);
}

private QueueInfoProto convertToProtoFormat(QueueInfo q) {
    return ((QueueInfoPBImpl)q).getProto();
}

private QueueState convertFromProtoFormat(QueueStateProto q) {
    return ProtoUtils.convertFromProtoFormat(q);
}

private QueueStateProto convertToProtoFormat(QueueState queueState) {
    return ProtoUtils.convertToProtoFormat(queueState);
}

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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.SerializedException;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerStatusPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.SerializedExceptionPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.SerializedExceptionProto;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetContainerStatusesResponsePBImpl extends GetContainerStatusesResponse {
    GetContainerStatusesResponseProto proto = GetContainerStatusesResponseProto.getDefaultInstance();
    GetContainerStatusesResponseProto.Builder builder = null;
    boolean viaProto = false;

    private List<ContainerStatus> containerStatuses = null;
    private Map<ContainerId, SerializedException> failedRequests = null;

    public GetContainerStatusesResponsePBImpl() {
        this.proto = GetContainerStatusesResponseProto.getDefaultInstance();
        this.builder = GetContainerStatusesResponseProto.newBuilder();
    }

    public GetContainerStatusesResponsePBImpl(GetContainerStatusesResponseProto proto) {
        this.proto = proto;
        this.builder = proto.newBuilderForType(GetContainerStatusesResponseProto.getClass()).buildFromProto();
    }

    // setter methods...
    // ...
    // getter methods...
    // ...

    public void addContainerStatus(ContainerStatus containerStatus) {
        this.containerStatuses.add(containerStatus);
    }

    public void addFailedRequest(ContainerId containerId, SerializedException exception) {
        this.failedRequests.put(containerId, exception);
    }

    // other methods...
    //...
}
public GetContainerStatusesResponsePBImpl() {
    builder = GetContainerStatusesResponseProto.newBuilder();
}

public GetContainerStatusesResponsePBImpl(GetContainerStatusesResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetContainerStatusesResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.containerStatuses != null) {
        addLocalContainerStatusesToProto();
    }
    if (this.failedRequests != null) {
        addFailedRequestsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
maybeInitBuilder();
mergeLocalToBuilder();
proto = builder.build();
viaProto = true;
}

private void maybeInitBuilder() {
if (viaProto || builder == null) {
    builder = GetContainerStatusesResponseProto.newBuilder(proto);
}
viaProto = false;
}

private void addLocalContainerStatusesToProto() {
maybeInitBuilder();
builder.clearStatus();
if (this.containerStatuses == null)
    return;
List<ContainerStatusProto> protoList =
    new ArrayList<ContainerStatusProto>();
for (ContainerStatus status : containerStatuses) {
    protoList.add(convertToProtoFormat(status));
}
builder.addAllStatus(protoList);
}

private void addFailedRequestsToProto() {
maybeInitBuilder();
builder.clearFailedRequests();
if (this.failedRequests == null)
    return;
List<ContainerExceptionMapProto> protoList =
    new ArrayList<ContainerExceptionMapProto>();
for (Map.Entry<ContainerId, SerializedException> entry : this.failedRequests.entrySet()) {
    protoList.add(ContainerExceptionMapProto.newBuilder()
        .setContainerId(convertToProtoFormat(entry.getKey()))
        .setException(convertToProtoFormat(entry.getValue())).build());
}
builder.addAllFailedRequests(protoList);
}

private void initLocalContainerStatuses() {
if (this.containerStatuses != null)
    return;
GetContainerStatusesResponseProtoOrBuilder p = viaProto ? proto : builder;
List<ContainerStatusProto> statuses = p.getStatusList();
this.containerStatuses = new ArrayList<ContainerStatus>();
for (ContainerStatusProto status : statuses) {
    this.containerStatuses.add(convertFromProtoFormat(status));
}

private void initFailedRequests() {
    if (this.failedRequests != null) {
        return;
    }

    GetContainerStatusesResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerExceptionMapProto> protoList = p.getFailedRequestsList();
    this.failedRequests = new HashMap<ContainerId, SerializedException>();
    for (ContainerExceptionMapProto ce : protoList) {
        this.failedRequests.put(convertFromProtoFormat(ce.getContainerId()),
                               convertFromProtoFormat(ce.getException()));
    }
}

@Override
public List<ContainerStatus> getContainerStatuses() {
    initLocalContainerStatuses();
    return this.containerStatuses;
}

@Override
public void setContainerStatuses(List<ContainerStatus> statuses) {
    maybeInitBuilder();
    if (statuses == null)
        builder.clearStatus();
    this.containerStatuses = statuses;
}

@Override
public Map<ContainerId, SerializedException> getFailedRequests() {
    initFailedRequests();
    return this.failedRequests;
}

@Override
public void setFailedRequests( 
    Map<ContainerId, SerializedException> failedRequests) {
    maybeInitBuilder();
    if (failedRequests == null)
        builder.clearFailedRequests();
    this.failedRequests = failedRequests;
}
private ContainerStatusPBImpl convertFromProtoFormat(ContainerStatusProto p) {
    return new ContainerStatusPBImpl(p);
}

private ContainerStatusProto convertToProtoFormat(ContainerStatus t) {
    return ((ContainerStatusPBImpl) t).getProto();
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

private SerializedExceptionPBImpl convertFromProtoFormat(
    SerializedExceptionProto p) {
    return new SerializedExceptionPBImpl(p);
}

private SerializedExceptionProto convertToProtoFormat(SerializedException t) {
    return ((SerializedExceptionPBImpl) t).getProto();
}

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 */

package org.apache.hadoop.yarn.webapp.log;

import static org.apache.hadoop.yarn.webapp.YarnWebParams.CONTAINER_ID;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.ENTITY_STRING;
import static org.apache.hadoop.yarn.util.StringHelper.join;

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import static org.apache.hadoop.yarn.webapp.view.JQueryUI.ACCORDION;
import static org.apache.hadoop.yarn.webapp.view.JQueryUI.ACCORDION_ID;
import static org.apache.hadoop.yarn.webapp.view.JQueryUI.initID;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.yarn.webapp.SubView;
import org.apache.hadoop.yarn.webapp.view.TwoColumnLayout;

@InterfaceAudience.LimitedPrivate("YARN", "MapReduce")
public class AggregatedLogsPage extends TwoColumnLayout {

/* (non-Javadoc)
 * @see org.apache.hadoop.yarn.server.nodemanager.webapp.NMView#preHead(org.apache.hadoop.yarn.webapp.hamlet.Hamlet.HTML)
 */
@override
protected void preHead(Page.HTML<_> html) {
    String logEntity = $(ENTITY_STRING);
    if (logEntity == null || logEntity.isEmpty()) {
        logEntity = $(CONTAINER_ID);
    }
    if (logEntity == null || logEntity.isEmpty()) {
        logEntity = "UNKNOWN";
    }
    set(TITLE, join("Logs for ", logEntity));
    set(ACCORDION_ID, "nav");
    set(initID(ACCORDION, "nav"), "{autoHeight:false, active:0}");
}

@Override
protected Class<? extends SubView> content() {
    return AggregatedLogsBlock.class;
}

@Override
protected Class<? extends SubView> nav() {
    return AggregatedLogsNavBlock.class;
}

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* the License.
*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenResponse;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class CancelDelegationTokenResponsePBImpl extends CancelDelegationTokenResponse {

CancelDelegationTokenResponseProto proto = CancelDelegationTokenResponseProto
       .getDefaultInstance();

public CancelDelegationTokenResponsePBImpl() {
}

public CancelDelegationTokenResponsePBImpl(
       CancelDelegationTokenResponseProto proto) {
   this.proto = proto;
}

public CancelDelegationTokenResponseProto getProto() {
   return proto;
}

@Override
public int hashCode() {
   return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
   if (other == null)
      return false;
   if (other.getClass().isAssignableFrom(this.getClass())) {

return this.getProto().equals(this.getClass().cast(other).getProto());
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.records.ApplicationReport;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetApplicationsResponsePBImpl
extends GetApplicationsResponse {

GetApplicationsResponseProto proto =
    GetApplicationsResponseProto.getDefaultInstance();
GetApplicationsResponseProto.Builder builder = null;
boolean viaProto = false;

List<ApplicationReport> applicationList;

public GetApplicationsResponsePBImpl() {
    builder = GetApplicationsResponseProto.newBuilder();
}

public GetApplicationsResponsePBImpl(GetApplicationsResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public List<ApplicationReport> getApplicationList() {
    initLocalApplicationsList();
    return this.applicationList;
}

@Override
public void setApplicationList(List<ApplicationReport> applications) {
    maybeInitBuilder();
    if (applications == null)
        builder.clearApplications();
    this.applicationList = applications;
}

public GetApplicationsResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;

    // Check if the object is of the same class
    if (this.getClass() != other.getClass())
        return false;

    // Check if both objects are null
    if (this == null && other == null)
        return true;

    // Check if both objects are not null
    if (this == null)
        return false;

    return this.equals(other);
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;

    // Check if the object is of the same class
    if (this.getClass() != other.getClass())
        return false;

    // Check if both objects are null
    if (this == null)
        return true;

    // Check if both objects are not null
    if (this == null)
        return false;

    return this.equals(other);
}
if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
} return false;

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationList != null) {
        addLocalApplicationsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationsResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private void initLocalApplicationsList() {
    if (this.applicationList != null) {
        return;
    }
    GetApplicationsResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ApplicationReportProto> list = p.getApplicationsList();
    applicationList = new ArrayList<ApplicationReport>();

    for (ApplicationReportProto a : list) {
        applicationList.add(convertFromProtoFormat(a));
    }
}

private void addLocalApplicationsToProto() {

maybeInitBuilder();
builder.clearApplications();
if (applicationList == null)
    return;
Iterable<ApplicationReportProto> iterable = new Iterable<ApplicationReportProto>() {
    @Override
    public Iterator<ApplicationReportProto> iterator() {
        return new Iterator<ApplicationReportProto>() {
            Iterator<ApplicationReport> iter = applicationList.iterator();

            @Override
            public boolean hasNext() {
                return iter.hasNext();
            }

            @Override
            public ApplicationReportProto next() {
                return convertToProtoFormat(iter.next());
            }

            @Override
            public void remove() {
                throw new UnsupportedOperationException();
            }
        };
    }
};
builder.addAllApplications(iterable);
private ApplicationReportPBImpl convertFromProtoFormat(ApplicationReportProto p) {
    return new ApplicationReportPBImpl(p);
}
private ApplicationReportProto convertToProtoFormat(ApplicationReport t) {
    return ((ApplicationReportPBImpl)t).getProto();
}
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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.records.YarnClusterMetrics;
import org.apache.hadoop.yarn.api.records.impl.pb.YarnClusterMetricsPBImpl;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetClusterMetricsResponsePBImpl extends GetClusterMetricsResponse {
    GetClusterMetricsResponseProto proto = GetClusterMetricsResponseProto.getDefaultInstance();
    GetClusterMetricsResponseProto.Builder builder = null;
    boolean viaProto = false;
    private YarnClusterMetrics yarnClusterMetrics = null;

    public GetClusterMetricsResponsePBImpl() {
        builder = GetClusterMetricsResponseProto.newBuilder();
    }

    public GetClusterMetricsResponsePBImpl(GetClusterMetricsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetClusterMetricsResponseProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
    }
@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.yarnClusterMetrics != null) {
        builder.setClusterMetrics(convertToProtoFormat(this.yarnClusterMetrics));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetClusterMetricsResponseProto.newBuilder(proto);
        viaProto = false;
    }
}

@Override
public YarnClusterMetrics getClusterMetrics() {

GetClusterMetricsResponseProtoOrBuilder p = viaProto ? proto : builder;
if (this.yarnClusterMetrics != null) {
    return this.yarnClusterMetrics;
}
if (!p.hasClusterMetrics()) {
    return null;
}
this.yarnClusterMetrics = convertFromProtoFormat(p.getClusterMetrics());
return this.yarnClusterMetrics;

@Override
public void setClusterMetrics(YarnClusterMetrics clusterMetrics) {
    maybeInitBuilder();
    if (clusterMetrics == null)
        builder.clearClusterMetrics();
    this.yarnClusterMetrics = clusterMetrics;
}

private YarnClusterMetricsPBImpl convertFromProtoFormat(YarnClusterMetricsProto p) {
    return new YarnClusterMetricsPBImpl(p);
}

private YarnClusterMetricsProto convertToProtoFormat(YarnClusterMetrics t) {
    return ((YarnClusterMetricsPBImpl)t).getProto();
}

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 */
import java.nio.ByteBuffer;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import org.apache.hadoop.yarn.api.records.impl.pb.ResourcePBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos_ResourceProto;

import com.google.protobuf.ByteString;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RegisterApplicationMasterResponsePBImpl extends
    RegisterApplicationMasterResponse {}
proto = viaProto ? proto : builder.build();
viaProto = true;
return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (this.maximumResourceCapability != null) {
        builder.setMaximumCapability(convertToProtoFormat(this.maximumResourceCapability));
    }
    if (this.applicationACLS != null) {
        addApplicationACLs();
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RegisterApplicationMasterResponseProto.newBuilder(proto);
    }
}
viaProto = false;
}

@Override
public Resource getMaximumResourceCapability() {
    if (this.maximumResourceCapability != null) {
        return this.maximumResourceCapability;
    }

    RegisterApplicationMasterResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasMaximumCapability()) {
        return null;
    }

    this.maximumResourceCapability = convertFromProtoFormat(p.getMaximumCapability());
    return this.maximumResourceCapability;
}

@Override
public void setMaximumResourceCapability(Resource capability) {
    maybeInitBuilder();
    if (maximumResourceCapability == null) {
        builder.clearMaximumCapability();
    }
    this.maximumResourceCapability = capability;
}

@Override
public Map<ApplicationAccessType, String> getApplicationACLs() {
    initApplicationACLs();
    return this.applicationACLS;
}

private void initApplicationACLs() {
    if (this.applicationACLS != null) {
        return;
    }

    RegisterApplicationMasterResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ApplicationACLMapProto> list = p.getApplicationACLsList();
    this.applicationACLS = new HashMap<ApplicationAccessType, String>(list.size());

    for (ApplicationACLMapProto aclProto : list) {
        this.applicationACLS.put(ProtoUtils.convertFromProtoFormat(aclProto.getAccessType()), aclProto.getAcl());
    }
}
private void addApplicationACLs() {
    maybeInitBuilder();
    builder.clearApplicationACLs();
    if (applicationACLS == null) {
        return;
    }
    Iterable<? extends ApplicationACLMapProto> values
        = new Iterable<ApplicationACLMapProto>() {

        @Override
        public Iterator<ApplicationACLMapProto> iterator() {
            return new Iterator<ApplicationACLMapProto>() {
                Iterator<ApplicationAccessType> aclsIterator = applicationACLS
                    .keySet().iterator();

                @Override
                public boolean hasNext() {
                    return aclsIterator.hasNext();
                }

                @Override
                public ApplicationACLMapProto next() {
                    ApplicationAccessType key = aclsIterator.next();
                    return ApplicationACLMapProto.newBuilder().setAcl(
                        applicationACLS.get(key)).setAccessType(
                            ProtoUtils.convertToProtoFormat(key)).build();
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
        this.builder.addAllApplicationACLs(values);
    }

    @Override
    public void setApplicationACLs(
        final Map<ApplicationAccessType, String> appACLs) {
        if (appACLs == null)
            return;
        initApplicationACLs();
        this.applicationACLS.clear();
        this.applicationACLS.putAll(appACLs);
    }
}
@Override
public void setClientToAMTokenMasterKey(ByteBuffer key) {
    if (key == null) {
        builder.clearClientToAmTokenMasterKey();
        return;
    }
    maybeInitBuilder();
    builder.setClientToAmTokenMasterKey(ByteString.copyFrom(key));
}

@Override
public ByteBuffer getClientToAMTokenMasterKey() {
    maybeInitBuilder();
    ByteBuffer key =
        ByteBuffer.wrap(builder.getClientToAmTokenMasterKey().toByteArray());
    return key;
}

private Resource convertFromProtoFormat(ResourceProto resource) {
    return new ResourcePBImpl(resource);
}

private ResourceProto convertToProtoFormat(Resource resource) {
    return ((ResourcePBImpl)resource).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import java.util.EnumSet;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Set;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsRequest;
import org.apache.hadoop.yarn.api.records.YarnApplicationState;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetApplicationsRequestPBImpl extends GetApplicationsRequest {
  GetApplicationsRequestProto proto = GetApplicationsRequestProto.getDefaultInstance();
  GetApplicationsRequestProto.Builder builder = null;
  boolean viaProto = false;

  Set<String> applicationTypes = null;
  EnumSet<YarnApplicationState> applicationStates = null;

  public GetApplicationsRequestPBImpl() {
    builder = GetApplicationsRequestProto.newBuilder();
  }

  public GetApplicationsRequestPBImpl(GetApplicationsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public GetApplicationsRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  private void mergeLocalToProto() {
    if (viaProto)
      maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
  }

  // Other methods and constructors...
}
private void mergeLocalToBuilder() {
  if (this.applicationTypes != null) {
    addLocalApplicationTypesToProto();
  }
  if (this.applicationStates != null) {
    maybeInitBuilder();
    builder.clearApplicationStates();
    Iterable<YarnApplicationStateProto> iterable =
      new Iterable<YarnApplicationStateProto>() {

        @Override
        public Iterator<YarnApplicationStateProto> iterator() {
          return new Iterator<YarnApplicationStateProto>() {
            Iterator<YarnApplicationState> iter = applicationStates
              .iterator();

            @Override
            public boolean hasNext() {
              return iter.hasNext();
            }

            @Override
            public YarnApplicationStateProto next() {
              return ProtoUtils.convertToProtoFormat(iter.next());
            }

            @Override
            public void remove() {
              throw new UnsupportedOperationException();
            }
          };
        }

        @Override
        public Iterator<YarnApplicationStateProto> iterator() {
          return new Iterator<YarnApplicationStateProto>() {
            Iterator<YarnApplicationState> iter = applicationStates
              .iterator();

            @Override
            public boolean hasNext() {
              return iter.hasNext();
            }

            @Override
            public YarnApplicationStateProto next() {
              return ProtoUtils.convertToProtoFormat(iter.next());
            }

            @Override
            public void remove() {
              throw new UnsupportedOperationException();
            }
          };
        }
        builder.addAllApplicationStates(iterable);
      }
  }

  private void addLocalApplicationTypesToProto() {
    maybeInitBuilder();
    builder.clearApplicationTypes();
    if (this.applicationTypes == null)
      return;
    builder.addAllApplicationTypes(iterable);
  }
builder.addAllApplicationTypes(applicationTypes);
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationsRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private void initApplicationTypes() {
    if (this.applicationTypes != null) {
        return;
    }
    GetApplicationsRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<String> appTypeList = p.getApplicationTypesList();
    this.applicationTypes = new HashSet<String>();
    this.applicationTypes.addAll(appTypeList);
}

private void initApplicationStates() {
    if (this.applicationStates != null) {
        return;
    }
    GetApplicationsRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<YarnApplicationStateProto> appStatesList =
        p.getApplicationStatesList();
    this.applicationStates = EnumSet.noneOf(YarnApplicationState.class);

    for (YarnApplicationStateProto c : appStatesList) {
        this.applicationStates.add(ProtoUtils.convertFromProtoFormat(c));
    }
}

@Override
public Set<String> getApplicationTypes() {
    initApplicationTypes();
    return this.applicationTypes;
}

@Override
public void setApplicationTypes(Set<String> applicationTypes) {
    maybeInitBuilder();
    if (applicationTypes == null)
        builder.clearApplicationTypes();
    this.applicationTypes = applicationTypes;
}
@Override
public EnumSet<YarnApplicationState> getApplicationStates() {
    initApplicationStates();
    return this.applicationStates;
}

@Override
public void setApplicationStates(EnumSet<YarnApplicationState> applicationStates) {
    maybeInitBuilder();
    if (applicationStates == null) {
        builder.clearApplicationStates();
    }
    this.applicationStates = applicationStates;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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*/

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsRequest;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshAdminAclsRequestPBImpl
extends RefreshAdminAclsRequest {

RefreshAdminAclsRequestProto proto = RefreshAdminAclsRequestProto.getDefaultInstance();
RefreshAdminAclsRequestProto.Builder builder = null;
boolean viaProto = false;

public RefreshAdminAclsRequestPBImpl() {
    builder = RefreshAdminAclsRequestProto.newBuilder();
}

public RefreshAdminAclsRequestPBImpl(RefreshAdminAclsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public RefreshAdminAclsRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return true;
    }
    if (other.equals(getProto())) {
        return true;
    }
    return false;
}

public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return true;
    }
    return false;
}
return this.getProto().equals(this.getClass().cast(other).getProto());
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshQueuesRequestPBImpl extends RefreshQueuesRequest {

    RefreshQueuesRequestProto proto = RefreshQueuesRequestProto.getDefaultInstance();
    RefreshQueuesRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshQueuesRequestPBImpl() {
        builder = RefreshQueuesRequestProto.newBuilder();
    }
public RefreshQueuesRequestPBImpl(RefreshQueuesRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public RefreshQueuesRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationResponse;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class SubmitApplicationResponsePBImpl extends SubmitApplicationResponse {
    SubmitApplicationResponseProto proto = SubmitApplicationResponseProto.getDefaultInstance();
    SubmitApplicationResponseProto.Builder builder = null;
    boolean viaProto = false;

    public SubmitApplicationResponsePBImpl() {
        builder = SubmitApplicationResponseProto.newBuilder();
    }

    public SubmitApplicationResponsePBImpl(SubmitApplicationResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public SubmitApplicationResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }
}
@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ResourcePBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetNewApplicationResponsePBImpl extends GetNewApplicationResponse {
    GetNewApplicationResponseProto proto = GetNewApplicationResponseProto.getDefaultInstance();
    GetNewApplicationResponseProtoOrBuilder proto = GetNewApplicationResponseProto.getDefaultInstance();
    boolean viaProto = false;
}
private ApplicationId applicationId = null;
private Resource maximumResourceCapability = null;

public GetNewApplicationResponsePBImpl() {
  builder = GetNewApplicationResponseProto.newBuilder();
}

public GetNewApplicationResponsePBImpl(GetNewApplicationResponseProto proto) {
  this.proto = proto;
  viaProto = true;
}

public GetNewApplicationResponseProto getProto() {
  mergeLocalToProto();
  proto = viaProto ? proto : builder.build();
  viaProto = true;
  return proto;
}

@Override
public int hashCode() {
  return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
  if (other == null)
    return false;
  if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
  }
  return false;
}

@Override
public String toString() {
  return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
  if (applicationId != null) {
    builder.setApplicationId(convertToProtoFormat(this.applicationId));
  }
  if (maximumResourceCapability != null) {
    builder.setMaximumCapability(convertToProtoFormat(this.maximumResourceCapability));
  }
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetNewApplicationResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationId getApplicationId() {
    if (this.applicationId != null) {
        return this.applicationId;
    }
    if (!p.hasApplicationId()) {
        return null;
    }
    this.applicationId = convertFromProtoFormat(p.getApplicationId());
    return this.applicationId;
}

@Override
public void setApplicationId(ApplicationId applicationId) {
    maybeInitBuilder();
    if (applicationId == null)
        builder.clearApplicationId();
    this.applicationId = applicationId;
}

@Override
public Resource getMaximumResourceCapability() {
    if (this.maximumResourceCapability != null) {
        return this.maximumResourceCapability;
    }
    if (!p.hasMaximumCapability()) {
        return null;
    }
    this.maximumResourceCapability = convertFromProtoFormat(p.getMaximumCapability());
    return this.maximumResourceCapability;
}
private ApplicationIdPBImpl convertFromProtoFormat(ApplicationIdProto p) {
    return new ApplicationIdPBImpl(p);
}

private ApplicationIdProto convertToProtoFormat(ApplicationId t) {
    return ((ApplicationIdPBImpl)t).getProto();
}

private Resource convertFromProtoFormat(ResourceProto resource) {
    return new ResourcePBImpl(resource);
}

private ResourceProto convertToProtoFormat(Resource resource) {
    return ((ResourcePBImpl)resource).getProto();
}

}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesRequest;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetContainerStatusesRequestPBImpl extends GetContainerStatusesRequest {
    GetContainerStatusesRequestProto proto = GetContainerStatusesRequestProto.getDefaultInstance();
    GetContainerStatusesRequestProto.Builder builder = null;
    boolean viaProto = false;

    private List<ContainerId> containerIds = null;

    public GetContainerStatusesRequestPBImpl() {
        builder = GetContainerStatusesRequestProto.newBuilder();
    }

    public GetContainerStatusesRequestPBImpl(GetContainerStatusesRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetContainerStatusesRequestPBImpl(GetContainerStatusesRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetContainerStatusesRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return 0;
    }
}
return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.containerIds != null) {
        addLocalContainerIdsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetContainerStatusesRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private void addLocalContainerIdsToProto() {
    maybeInitBuilder();
    builder.clearContainerId();
    if (this.containerIds == null)
        return;
    List<ContainerIdProto> protoList = new ArrayList<ContainerIdProto>();
    for (ContainerId id : containerIds) {
        protoList.add(convertToProtoFormat(id));
    }
}
private void initLocalContainerIds() {
    if (this.containerIds != null) {
        return;
    }
    GetContainerStatusesRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> containerIds = p.getContainerIdList();
    this.containerIds = new ArrayList<ContainerId>();
    for (ContainerIdProto id : containerIds) {
        this.containerIds.add(convertFromProtoFormat(id));
    }
}

@override
public List<ContainerId> getContainerIds() {
    initLocalContainerIds();
    return this.containerIds;
}

@override
public void setContainerIds(List<ContainerId> containerIds) {
    maybeInitBuilder();
    if (containerIds == null)
        builder.clearContainerId();
    this.containerIds = containerIds;
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

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 */
package org.apache.hadoop.yarn.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoResponse;
import org.apache.hadoop.yarn.api.records.QueueInfo;
import org.apache.hadoop.yarn.api.records.impl.pb.QueueInfoPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueInfoResponsePBImpl extends GetQueueInfoResponse {

QueueInfo queueInfo;

GetQueueInfoResponseProto proto =
    GetQueueInfoResponseProto.getDefaultInstance();
GetQueueInfoResponseProto.Builder builder = null;
boolean viaProto = false;

public GetQueueInfoResponsePBImpl() {
    builder = GetQueueInfoResponseProto.newBuilder();
}

public GetQueueInfoResponsePBImpl(GetQueueInfoResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetQueueInfoResponseProto getProto() {
    return proto;
}
@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

@Override
public QueueInfo getQueueInfo() {
    if (this.queueInfo != null) {
        return this.queueInfo;
    }
    GetQueueInfoResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasQueueInfo()) {
        return null;
    }
    this.queueInfo = convertFromProtoFormat(p.getQueueInfo());
    return this.queueInfo;
}

@Override
public void setQueueInfo(QueueInfo queueInfo) {
    maybeInitBuilder();
    if (queueInfo == null) {
        builder.clearQueueInfo();
    }
    this.queueInfo = queueInfo;
}

private void mergeLocalToBuilder() {
    if (this.queueInfo != null) {
        builder.setQueueInfo(convertToProtoFormat(this.queueInfo));
    }
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetQueueInfoResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

private QueueInfo convertFromProtoFormat(QueueInfoProto queueInfo) {
    return new QueueInfoPBImpl(queueInfo);
}

private QueueInfoProto convertToProtoFormat(QueueInfo queueInfo) {
    return ((QueueInfoPBImpl)queueInfo).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoRequest;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueUserAclsInfoRequestPBImpl extends GetQueueUserAclsInfoRequest {

GetQueueUserAclsInfoRequestProto proto =
    GetQueueUserAclsInfoRequestProto.getDefaultInstance();
GetQueueUserAclsInfoRequestProto.Builder builder = null;
boolean viaProto = false;

public GetQueueUserAclsInfoRequestPBImpl() {
    builder = GetQueueUserAclsInfoRequestProto.newBuilder();
}

public GetQueueUserAclsInfoRequestPBImpl(GetQueueUserAclsInfoRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetQueueUserAclsInfoRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
}
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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationRequest;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class KillApplicationRequestPBImpl extends KillApplicationRequest {
    KillApplicationRequestProto proto = KillApplicationRequestProto.getDefaultInstance();
    KillApplicationRequestProto.Builder builder = null;
    boolean viaProto = false;

    private ApplicationId applicationId = null;

    public KillApplicationRequestPBImpl() {
        builder = KillApplicationRequestProto.newBuilder();
    }

    public KillApplicationRequestPBImpl(KillApplicationRequestProto proto) {
        this.proto = proto;
    }
}
public KillApplicationRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationId != null) {
        builder.setApplicationId(convertToProtoFormat(this.applicationId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = KillApplicationRequestProto.newBuilder(proto);
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = KillApplicationRequestProto.newBuilder(proto);
    }
}
viaProto = false;
}

@Override
public ApplicationId getApplicationId() {
    KillApplicationRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.applicationId != null) {
        return this.applicationId;
    }
    if (!p.hasApplicationId()) {
        return null;
    }
    this.applicationId = convertFromProtoFormat(p.getApplicationId());
    return this.applicationId;
}

@Override
public void setApplicationId(ApplicationId applicationId) {
    maybeInitBuilder();
    if (applicationId == null)
        builder.clearApplicationId();
    this.applicationId = applicationId;
}

private ApplicationIdPBImpl convertFromProtoFormat(ApplicationIdProto p) {
    return new ApplicationIdPBImpl(p);
}

private ApplicationIdProto convertToProtoFormat(ApplicationId t) {
    return ((ApplicationIdPBImpl)t).getProto();
}

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*/

package org.apache.hadoop.yarn.factories.impl.pb;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.net.InetSocketAddress;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.factories.RpcClientFactory;

@Private
public class RpcClientFactoryPBImpl implements RpcClientFactory {

private static final Log LOG = LogFactory.getLog(RpcClientFactoryPBImpl.class);

private static final String PB_IMPL_PACKAGE_SUFFIX = "impl.pb.client";
private static final String PB_IMPL_CLASS_SUFFIX = "PBClientImpl";

private static final RpcClientFactoryPBImpl self = new RpcClientFactoryPBImpl();
private Configuration localConf = new Configuration();
private ConcurrentMap<Class<?>, Constructor<?>> cache = new ConcurrentHashMap<Class<?>, Constructor<?>>();

public static RpcClientFactoryPBImpl get() {
return RpcClientFactoryPBImpl.self;
}

private RpcClientFactoryPBImpl() {
}

public Object getClient(Class<?> protocol, long clientVersion, InetSocketAddress addr, Configuration conf) {
Constructor<?> constructor = cache.get(protocol);
if (constructor == null) {

//...
Class<?> pbClazz = null;
try {
    pbClazz = localConf.getClassByName(getPBImplClassName(protocol));
} catch (ClassNotFoundException e) {
    throw new YarnRuntimeException("Failed to load class: ",
            + getPBImplClassName(protocol) + ", "
        + InetSocketAddress.class + ", " + Configuration.class, e);
}

try {
    constructor = pbClazz.getConstructor(Long.TYPE, InetSocketAddress.class, Configuration.class);
    constructor.setAccessible(true);
    cache.putIfAbsent(protocol, constructor);
} catch (NoSuchMethodException e) {
    throw new YarnRuntimeException("Could not find constructor with params: " + Long.TYPE + ", " +
        InetSocketAddress.class + ", " + Configuration.class, e);
}

try {
    Object retObject = constructor.newInstance(clientVersion, addr, conf);
    return retObject;
} catch (InvocationTargetException e) {
    throw new YarnRuntimeException(e);
} catch (IllegalAccessException e) {
    throw new YarnRuntimeException(e);
} catch (InstantiationException e) {
    throw new YarnRuntimeException(e);
}

@Override
public void stopClient(Object proxy) {
    try {
        Method closeMethod = proxy.getClass().getMethod("close");
        closeMethod.invoke(proxy);
    } catch (InvocationTargetException e) {
        throw new YarnRuntimeException(e);
    } catch (Exception e) {
        LOG.error("Cannot call close method due to Exception. ",
                + "Ignoring.", e);
        throw new YarnRuntimeException(e);
    }
}

private String getPBImplClassName(Class<?> clazz) {
    String srcPackagePart = getPackageName(clazz);
    String srcClassName = getClassName(clazz);
    String destPackagePart = srcPackagePart + PB_IMPL_PACKAGE_SUFFIX;
    String destClassPart = srcClassName + PB_IMPL_CLASS_SUFFIX;
    return destPackagePart + ", " + destClassPart;
}
private String getClassName(Class<?> clazz) {
    String fqName = clazz.getName();
    return (fqName.substring(fqName.lastIndexOf(".")+1, fqName.length()));
}

private String getPackageName(Class<?> clazz) {
    return clazz.getPackage().getName();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.SerializedException;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.SerializedExceptionPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.SerializedExceptionProto;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StopContainersResponsePBImpl extends StopContainersResponse {
  StopContainersResponseProto proto = StopContainersResponseProto.getDefaultInstance();
  StopContainersResponseProto.Builder builder = null;
  boolean viaProto = false;
  private List<ContainerId> succeededRequests = null;
  private Map<ContainerId, SerializedException> failedRequests = null;

  public StopContainersResponsePBImpl() {
    builder = StopContainersResponseProto.newBuilder();
  }

  public StopContainersResponsePBImpl(StopContainersResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public StopContainersResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public boolean equals(Object other) {
    if (other == null) return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
      return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
  }

  @Override
  public String toString() {
    return TextFormat.shortDebugString(getProto());
  }
}
private void mergeLocalToProto() {
    if (viaProto) {
        maybeInitBuilder();
    }
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StopContainersResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

private void mergeLocalToBuilder() {
    if (this.succeededRequests != null) {
        addSucceededRequestsToProto();
    }
    if (this.failedRequests != null) {
        addFailedRequestsToProto();
    }
}

private void addSucceededRequestsToProto() {
    maybeInitBuilder();
    builder.clearSucceededRequests();
    if (this.succeededRequests == null) {
        return;
    }
    Iterable<ContainerIdProto> iterable = new Iterable<ContainerIdProto>() {
        @Override
        public Iterator<ContainerIdProto> iterator() {
            return new Iterator<ContainerIdProto>() {
                Iterator<ContainerId> iter = succeededRequests.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ContainerIdProto next() {
                    return iter.next().toProto();
                }
            };
        }
    };
    @Override
    public Iterator<ContainerIdProto> iterator() {
        return iterable.iterator();
    }

    @Override
    public boolean hasNext() {
        return iterable.hasNext();
    }

    @Override
    public ContainerIdProto next() {
    }
return convertToProtoFormat(iter.next());
}

@Override
public void remove() {
    throw new UnsupportedOperationException();
}
};

private void addFailedRequestsToProto() {
    maybeInitBuilder();
    builder.clearFailedRequests();
    if (this.failedRequests == null)
        return;
    List<ContainerExceptionMapProto> protoList =
        new ArrayList<ContainerExceptionMapProto>();
    for (Map.Entry<ContainerId, SerializedException> entry : this.failedRequests.entrySet()) {
        protoList.add(ContainerExceptionMapProto.newBuilder()
            .setContainerId(convertToProtoFormat(entry.getKey()))
            .setException(convertToProtoFormat(entry.getValue())).build());
    }
    builder.addAllFailedRequests(protoList);
}

private void initSucceededRequests() {
    if (this.succeededRequests != null)
        return;
    StopContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> list = p.getSucceededRequestsList();
    this.succeededRequests = new ArrayList<ContainerId>();
    for (ContainerIdProto c : list) {
        this.succeededRequests.add(convertFromProtoFormat(c));
    }
}

private void initFailedRequests() {
    if (this.failedRequests != null) {
        return;
    }
    StopContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerExceptionMapProto> protoList = p.getFailedRequestsList();
}
this.failedRequests = new HashMap<ContainerId, SerializedException>();
for (ContainerExceptionMapProto ce : protoList) {
    this.failedRequests.put(convertFromProtoFormat(ce.getContainerId()),
                           convertFromProtoFormat(ce.getException()));
}

@Override
public List<ContainerId> getSuccessfullyStoppedContainers() {
    initSucceededRequests();
    return this.succeededRequests;
}

@Override
public void setSuccessfullyStoppedContainers(List<ContainerId> succeededRequests) {
    maybeInitBuilder();
    if (succeededRequests == null) {
        builder.clearSucceededRequests();
    }
    this.succeededRequests = succeededRequests;
}

@Override
public Map<ContainerId, SerializedException> getFailedRequests() {
    initFailedRequests();
    return this.failedRequests;
}

@Override
public void setFailedRequests(Map<ContainerId, SerializedException> failedRequests) {
    maybeInitBuilder();
    if (failedRequests == null)
        builder.clearFailedRequests();
    this.failedRequests = failedRequests;
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

private SerializedExceptionPBImpl convertFromProtoFormat(
    SerializedExceptionProto p) {
    return new SerializedExceptionPBImpl(p);
private SerializedExceptionProto convertToProtoFormat(SerializedException t) {
  return ((SerializedExceptionPBImpl) t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetNewApplicationRequestPBImpl extends GetNewApplicationRequest {
  GetNewApplicationRequestProto proto = GetNewApplicationRequestProto.getDefaultInstance();
  GetNewApplicationRequestProto.Builder builder = null;
  boolean viaProto = false;

  public GetNewApplicationRequestPBImpl() {
    builder = GetNewApplicationRequestProto.newBuilder();
  }

  public GetNewApplicationRequestPBImpl(GetNewApplicationRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }
}
public GetNewApplicationRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetDelegationTokenResponsePBImpl extends GetDelegationTokenResponse {

    Token appToken;

    GetDelegationTokenResponseProto proto =
        GetDelegationTokenResponseProto.getDefaultInstance();
    GetDelegationTokenResponseProto.Builder builder = null;
    boolean viaProto = false;

    public GetDelegationTokenResponsePBImpl() {
        builder = GetDelegationTokenResponseProto.newBuilder();
    }

    public GetDelegationTokenResponsePBImpl (GetDelegationTokenResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    @Override
    public Token getRMDelegationToken() {
        GetDelegationTokenResponseProtoOrBuilder p = viaProto ? proto : builder;
        if (this.appToken != null) {
            return this.appToken;
        }
        if (!p.hasToken()) {
            return null;
        }
        this.appToken = convertFromProtoFormat(p.getToken());
        return this.appToken;
    }

    @Override
    public void setRMDelegationToken(Token appToken) {

maybeInitBuilder();
if (appToken == null)
    builder.clearToken();
this.appToken = appToken;
}

public GetDelegationTokenResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (appToken != null) {
        builder.setToken(convertToProtoFormat(this.appToken));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {

if (viaProto || builder == null) {
    builder = GetDelegationTokenResponseProto.newBuilder(proto);
}
viaProto = false;
}

private TokenPBImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.net.NetUtils;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersResponsePBImpl;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.StopContainersRequestProto;
import com.google.protobuf.ServiceException;

@Private
public class ContainerManagementProtocolPBClientImpl implements ContainerManagementProtocol,
        Closeable {

    // Not a documented config. Only used for tests
    static final String NM_COMMAND_TIMEOUT = YarnConfiguration.YARN_PREFIX
            + "rpc.nm-command-timeout";

    /**
     * Maximum of 1 minute timeout for a Node to react to the command
     */
    static final int DEFAULT_COMMAND_TIMEOUT = 60000;

    private ContainerManagementProtocolPB proxy;

    public ContainerManagementProtocolPBClientImpl(long clientVersion,
            InetSocketAddress addr, Configuration conf) throws IOException {
        RPC.setProtocolEngine(conf, ContainerManagementProtocolPB.class,
                ProtobufRpcEngine.class);
        UserGroupInformation ugi = UserGroupInformation.getCurrentUser();
        int expireIntvl = conf.getInt(NM_COMMAND_TIMEOUT, DEFAULT_COMMAND_TIMEOUT);
        proxy = (ContainerManagementProtocolPB) RPC.getProxy(ContainerManagementProtocolPB.class,
                clientVersion, addr, ugi, conf,
                NetUtils.getDefaultSocketFactory(conf), expireIntvl);
    }
}
@Override
public void close() {
    if (this.proxy != null) {
        RPC.stopProxy(this.proxy);
    }
}

@Override
public StartContainersResponse startContainers(StartContainersRequest requests) throws YarnException, IOException {
    StartContainersRequestProto requestProto =
        ((StartContainersRequestPBImpl) requests).getProto();
    try {
        return new StartContainersResponsePBImpl(proxy.startContainers(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public StopContainersResponse stopContainers(StopContainersRequest requests) throws YarnException, IOException {
    StopContainersRequestProto requestProto =
        ((StopContainersRequestPBImpl) requests).getProto();
    try {
        return new StopContainersResponsePBImpl(proxy.stopContainers(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetContainerStatusesResponse getContainerStatuses(GetContainerStatusesRequest request) throws YarnException, IOException {
    GetContainerStatusesRequestProto requestProto =
        ((GetContainerStatusesRequestPBImpl) request).getProto();
    try {
        return new GetContainerStatusesResponsePBImpl(proxy.getContainerStatuses(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterRequest;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.RegisterApplicationMasterRequestProto;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.RegisterApplicationMasterRequestProtoOrBuilder;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RegisterApplicationMasterRequestPBImpl extends RegisterApplicationMasterRequest {
    RegisterApplicationMasterRequestProto proto = RegisterApplicationMasterRequestProto.getDefaultInstance();
    RegisterApplicationMasterRequestProtoOrBuilder viaProto = null;

    public RegisterApplicationMasterRequestPBImpl() {
        builder = RegisterApplicationMasterRequestProto.newBuilder();
    }

    public RegisterApplicationMasterRequestPBImpl(RegisterApplicationMasterRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RegisterApplicationMasterRequestProto getProto() {
        return proto;
    }
}
mergeLocalToProto();
proto = viaProto ? proto : builder.build();
viaProto = true;
return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RegisterApplicationMasterRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public String getHost() {
    RegisterApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getHost();
}
@Override
public void setHost(String host) {
    maybeInitBuilder();
    if (host == null) {
        builder.clearHost();
        return;
    }
    builder.setHost(host);
}

@Override
public int getRpcPort() {
    RegisterApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getRpcPort();
}

@Override
public void setRpcPort(int port) {
    maybeInitBuilder();
    builder.setRpcPort(port);
}

@Override
public String getTrackingUrl() {
    RegisterApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getTrackingUrl();
}

@Override
public void setTrackingUrl(String url) {
    maybeInitBuilder();
    if (url == null) {
        builder.clearTrackingUrl();
        return;
    }
    builder.setTrackingUrl(url);
}

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 */
package org.apache.hadoop.yarn.logaggregation;

import java.io.DataInput;
import java.io.DataInputStream;
import java.io.DataOutput;
import java.io.DataOutputStream;
import java.io.EOFException;
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.PrintStream;
import java.io.Writer;
import java.security.PrivilegedExceptionAction;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.EnumSet;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import org.apache.commons.io.input.BoundedInputStream;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CreateFlag;
import org.apache.hadoop.fs.FSDataInputStream;
import org.apache.hadoop.fs.FSDataOutputStream;
import org.apache.hadoop.fs.FileContext;
import org.apache.hadoop.fs.Options;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.fs.permission.FsPermission;
import org.apache.hadoop.io.SecureIOUtils;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.file.tfile.TFile;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.util.ConverterUtils;

@Public
@Evolving
public class AggregatedLogFormat {

private static final Log LOG = LogFactory.getLog(AggregatedLogFormat.class);
private static final LogKey APPLICATION_ACL_KEY = new LogKey("APPLICATION_ACL");
private static final LogKey APPLICATION_OWNER_KEY = new LogKey("APPLICATION_OWNER");
private static final LogKey VERSION_KEY = new LogKey("VERSION");
private static final Map<String, LogKey> RESERVED_KEYS;
//Maybe write out the retention policy.
//Maybe write out a list of containerLogs skipped by the retention policy.
private static final int VERSION = 1;

/**
 * Umask for the log file.
 */
private static final FsPermission APP_LOG_FILE_UMASK = FsPermission
    .createImmutable((short) (0640 ^ 0777));

static {
    RESERVED_KEYS = new HashMap<String, AggregatedLogFormat.LogKey>();
    RESERVED_KEYS.put(APPLICATION_ACL_KEY.toString(), APPLICATION_ACL_KEY);
    RESERVED_KEYS.put(APPLICATION_OWNER_KEY.toString(), APPLICATION_OWNER_KEY);
    RESERVED_KEYS.put(VERSION_KEY.toString(), VERSION_KEY);
}

@Public
public static class LogKey implements Writable {

    private String keyString;

    public LogKey() {

    }

    public LogKey(ContainerId containerId) {
        this.keyString = containerId.toString();
    }

    @Override
    public void readFields(DataInput in) throws IOException {
        keyString = in.readUTF();
    }

    @Override
    public void writeFields(DataOutput out) throws IOException {
        out.writeUTF(keyString);
    }

    @Override
    public int hashCode() {
        return keyString.hashCode();
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof LogKey && keyString.equals(((LogKey) obj).keyString);
    }

    @Override
    public String toString() {
        return keyString;
    }

    @Public
    @Evolving
    public static class AggregatedLogFormat {

        public static LogKey APPLICATION_ACL_KEY = new LogKey("APPLICATION_ACL");
        public static LogKey APPLICATION_OWNER_KEY = new LogKey("APPLICATION_OWNER");
        public static LogKey VERSION_KEY = new LogKey("VERSION");
        public static Map<String, LogKey> RESERVED_KEYS;
        //Maybe write out the retention policy.
        //Maybe write out a list of containerLogs skipped by the retention policy.
        public static final int VERSION = 1;

        /**
         * Umask for the log file.
         */
        public static final FsPermission APP_LOG_FILE_UMASK = FsPermission
            .createImmutable((short) (0640 ^ 0777));

        static {
            RESERVED_KEYS = new HashMap<String, AggregatedLogFormat.LogKey>();
            RESERVED_KEYS.put(APPLICATION_ACL_KEY.toString(), APPLICATION_ACL_KEY);
            RESERVED_KEYS.put(APPLICATION_OWNER_KEY.toString(), APPLICATION_OWNER_KEY);
            RESERVED_KEYS.put(VERSION_KEY.toString(), VERSION_KEY);
        }

        @Public
        public static class LogKey implements Writable {

            private String keyString;

            public LogKey() {

            }

            public LogKey(ContainerId containerId) {
                this.keyString = containerId.toString();
            }

            @Override
            public void readFields(DataInput in) throws IOException {
                keyString = in.readUTF();
            }

            @Override
            public void writeFields(DataOutput out) throws IOException {
                out.writeUTF(keyString);
            }

            @Override
            public int hashCode() {
                return keyString.hashCode();
            }

            @Override
            public boolean equals(Object obj) {
                return obj instanceof LogKey && keyString.equals(((LogKey) obj).keyString);
            }

            @Override
            public String toString() {
                return keyString;
            }
        }
    }
}
public LogKey(String keyString) {
    this.keyString = keyString;
}

@Override
public int hashCode() {
    return keyString == null ? 0 : keyString.hashCode();
}

@Override
public boolean equals(Object obj) {
    if (obj instanceof LogKey) {
        LogKey other = (LogKey) obj;
        if (this.keyString == null) {
            return other.keyString == null;
        }
        return this.keyString.equals(other.keyString);
    }
    return false;
}

@Private
@Override
public void write(DataOutput out) throws IOException {
    out.writeUTF(this.keyString);
}

@Private
@Override
public void readFields(DataInput in) throws IOException {
    this.keyString = in.readUTF();
}

@Override
public String toString() {
    return this.keyString;
}

@Private
public static class LogValue {

    private final List<String> rootLogDirs;
    private final ContainerId containerId;
    private final String user;
    // TODO Maybe add a version string here. Instead of changing the version of
    // the entire k-v format
public LogValue(List<String> rootLogDirs, ContainerId containerId,
        String user) {
    this.rootLogDirs = new ArrayList<String>(rootLogDirs);
    this.containerId = containerId;
    this.user = user;

    // Ensure logs are processed in lexical order
    Collections.sort(this.rootLogDirs);
}

public void write(DataOutputStream out) throws IOException {
    for (String rootLogDir : this.rootLogDirs) {
        File appLogDir =
            new File(rootLogDir,
                ConverterUtils.toString(
                    this.containerId.getApplicationAttemptId().
                    getApplicationId())
            );
        File containerLogDir =
            new File(appLogDir, ConverterUtils.toString(this.containerId));

        if (!containerLogDir.isDirectory()) {
            continue; // ContainerDir may have been deleted by the user.
        }

        // Write out log files in lexical order
        File[] logFiles = containerLogDir.listFiles();
        Arrays.sort(logFiles);
        for (File logFile : logFiles) {

            // Write the logFile Type
            out.writeUTF(logFile.getName());

            // Write the log length as UTF so that it is printable
            out.writeUTF(String.valueOf(logFile.length()));

            // Write the log itself
            FileInputStream in = null;
            try {
                in = SecureIOUtils.openForRead(logFile, getUser(), null);
                byte[] buf = new byte[65535];
                int len = 0;
                while ((len = in.read(buf)) != -1) {
                    out.write(buf, 0, len);
                }
            } catch (IOException e) {
                String message = "Error aggregating log file. Log file : "
            }
        }
    }
}

// Ensure logs are processed in lexical order
Collections.sort(this.rootLogDirs);
}
+ logFile.getAbsolutePath() + e.getMessage();
LOG.error(message, e);
out.write(message.getBytes());
} finally {
    if (in != null) {
        in.close();
    }
}

// Added for testing purpose.
public String getUser() {
    return user;
}

/**
 * The writer that writes out the aggregated logs.
 */
@Private
public static class LogWriter {

    private final FSDataOutputStream fsDataOStream;
    private final TFile.Writer writer;

    public LogWriter(final Configuration conf, final Path remoteAppLogFile,
            UserGroupInformation userUgi) throws IOException {
        try {
            this.fsDataOStream =
                userUgi.doAs(new PrivilegedExceptionAction<FSDataOutputStream>() {
                    @Override
                    public FSDataOutputStream run() throws Exception {
                        FileContext fc = FileContext.getFileContext(conf);
                        fc.setUMask(APP_LOG_FILE_UMASK);
                        return fc.create(
                                remoteAppLogFile,
                                EnumSet.of(CreateFlag.CREATE, CreateFlag.OVERWRITE),
                                new Options.CreateOpts[] {});
                    }
                });
        } catch (InterruptedException e) {
            throw new IOException(e);
        }

        // Keys are not sorted: null arg
        // 256KB minBlockSize : Expected log size for each container too
this.writer =
    new TFile.Writer(this.fsDataOStream, 256 * 1024, conf.get(
        YarnConfiguration.NM_LOG_AGG_COMPRESSION_TYPE,
        YarnConfiguration.DEFAULT_NM_LOG_AGG_COMPRESSION_TYPE), null, conf);

//Write the version string
writeVersion();
}

private void writeVersion() throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    VERSION_KEY.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    out.writeInt(VERSION);
    out.close();
}

public void writeApplicationOwner(String user) throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    APPLICATION_OWNER_KEY.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    out.writeUTF(user);
    out.close();
}

public void writeApplicationACLs(Map<ApplicationAccessType, String> appAcls) throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    APPLICATION_ACL_KEY.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    for (Entry<ApplicationAccessType, String> entry : appAcls.entrySet()) {
        out.writeUTF(entry.getKey().toString());
        out.writeUTF(entry.getValue());
    }
    out.close();
}

public void append(LogKey logKey, LogValue logValue) throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    logKey.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    logValue.write(out);
    out.close();
}
public void closeWriter() {
  try {
    this.writer.close();
  } catch (IOException e) {
    LOG.warn("Exception closing writer", e);
  }
  try {
    this.fsDataOStream.close();
  } catch (IOException e) {
    LOG.warn("Exception closing output-stream", e);
  }
}

@Public
@Evolving
public static class LogReader {

  private final FSDataInputStream fsDataIStream;
  private final TFile.Reader.Scanner scanner;
  private final TFile.Reader reader;

  public LogReader(Configuration conf, Path remoteAppLogFile)
      throws IOException {
    FileContext fileContext = FileContext.getFileContext(conf);
    this.fsDataIStream = fileContext.open(remoteAppLogFile);
    reader =
        new TFile.Reader(this.fsDataIStream, fileContext.getFileStatus(
            remoteAppLogFile).getLen(), conf);
    this.scanner = reader.createScanner();
  }

  private boolean atBeginning = true;

  /**
   * Returns the owner of the application.
   *
   * @return the application owner.
   * @throws IOException
   */
  public String getApplicationOwner() throws IOException {
    TFile.Reader.Scanner ownerScanner = reader.createScanner();
    LogKey key = new LogKey();
    while (!ownerScanner.atEnd()) {
      TFile.Reader.Scanner.Entry entry = ownerScanner.entry();
      key.readFields(entry.getKeyStream());
      if (key.toString().equals(APPLICATION_OWNER_KEY.toString())) {
        DataInputStream valueStream = entry.getValueStream();
      }
    }
  }
}
return valueStream.readUTF();
}
ownerScanner.advance();
return null;

/**
 * Returns ACLs for the application. An empty map is returned if no ACLs are
 * found.
 *
 * @return a map of the Application ACLs.
 * @throws IOException
 */
public Map<ApplicationAccessType, String> getApplicationAcls()
throws IOException {
  // TODO Seek directly to the key once a comparator is specified.
  TFile.Reader.Scanner aclScanner = reader.createScanner();
  LogKey key = new LogKey();
  Map<ApplicationAccessType, String> acls =
      new HashMap<ApplicationAccessType, String>();
  while (!aclScanner.atEnd()) {
    TFile.Reader.Scanner.Entry entry = aclScanner.entry();
    key.readFields(entry.getKeyStream());
    if (key.toString().equals(APPLICATION_ACL_KEY.toString())) {
      DataInputStream valueStream = entry.getValueStream();
      while (true) {
        String appAccessOp = null;
        String aclString = null;
        try {
          appAccessOp = valueStream.readUTF();
          // EOFException e) {
          // Valid end of stream.
          // break;
        } try {
          aclString = valueStream.readUTF();
        } catch (EOFException e) { throw new YarnRuntimeException("Error reading ACLs", e);
        } acls.put(ApplicationAccessType.valueOf(appAccessOp), aclString);
      }
    }
    aclScanner.advance();
  }
  return acls;
public DataInputStream next(LogKey key) throws IOException {
    if (!this.atBeginning) {
        this.scanner.advance();
    } else {
        this.atBeginning = false;
    }
    if (this.scanner.atEnd()) {
        return null;
    }
    TFile.Reader.Scanner.Entry entry = this.scanner.entry();
    key.readFields(entry.getKeyStream());
    // Skip META keys
    if (RESERVED_KEYS.containsKey(key.toString())) {
        return next(key);
    }
    DataInputStream valueStream = entry.getValueStream();
    return valueStream;
}

public ContainerLogsReader getContainerLogsReader(
    ContainerId containerId) throws IOException {
    ContainerLogsReader logReader = null;
    final LogKey containerKey = new LogKey(containerId);
    LogKey key = new LogKey();
    DataInputStream valueStream = next(key);
    while (valueStream != null && !key.equals(containerKey)) {
        valueStream = next(key);
    }
    return logReader;
}
if (valueStream != null) {
    logReader = new ContainerLogsReader(valueStream);
}

return logReader;

//TODO Change Log format and interfaces to be containerId specific.
// Avoid returning completeValueStreams.
// public List<String> getTypesForContainer(DataInputStream valueStream) {
//   
//   // * @param valueStream
//   // * The Log stream for the container.
//   // * @param fileType
//   // * the log type required.
//   // * @return An InputStreamReader for the required log type or null if the
//   // * type is not found.
//   // * @throws IOException
//   // */
// public InputStreamReader getLogStreamForType(DataInputStream valueStream,
//        String fileType) throws IOException {
//      valueStream.reset();
//      try {
//        while (true) {
//          String ft = valueStream.readUTF();
//          String fileLengthStr = valueStream.readUTF();
//          long fileLength = Long.parseLong(fileLengthStr);
//          if (ft.equals(fileType)) {
//            BoundedInputStream bis =
//            new BoundedInputStream(valueStream, fileLength);
//            return new InputStreamReader(bis);
//          } else {
//            long totalSkipped = 0;
//            long currSkipped = 0;
//            while (currSkipped != -1 && totalSkipped < fileLength) {
//              currSkipped = valueStream.skip(fileLength - totalSkipped);
//              totalSkipped += currSkipped;
//            }
//            // TODO Verify skip behaviour.
//            if (currSkipped == -1) {
//              return null;
//            }
//          }
//        }
//      } catch (EOFException e) {
//        return null;
//      }
//    } catch (EOFException e) {
//        return null;
//    }
public static void readAcontainerLogs(DataInputStream valueStream, Writer writer) throws IOException {
    int bufferSize = 65536;
    char[] cbuf = new char[bufferSize];
    String fileType;
    String fileLengthStr;
    long fileLength;

    while (true) {
        try {
            fileType = valueStream.readUTF();
        } catch (EOFException e) {
            // EndOfFile
            return;
        }
        fileLengthStr = valueStream.readUTF();
        fileLength = Long.parseLong(fileLengthStr);
        writer.write("\n\nLogType:");
        writer.write(fileType);
        writer.write("\nLogLength:");
        writer.write(fileLengthStr);
        writer.write("\nLog Contents:\n");
        // ByteLevel
        BoundedInputStream bis = new BoundedInputStream(valueStream, fileLength);
        InputStreamReader reader = new InputStreamReader(bis);
        int currentRead = 0;
        int totalRead = 0;
        while ((currentRead = reader.read(cbuf, 0, bufferSize)) != -1) {
            writer.write(cbuf, 0, currentRead);
            totalRead += currentRead;
        }
    }
}

/**
* Keep calling this till you get a {@link EOFException} for getting logs of
* all types for a single container.
* *
* @param valueStream
public static void readAContainerLogsForALogType(DataInputStream valueStream, PrintStream out)
        throws IOException {
    byte[] buf = new byte[65535];

    String fileType = valueStream.readUTF();
    String fileLengthStr = valueStream.readUTF();
    long fileLength = Long.parseLong(fileLengthStr);
    out.print("LogType: ");
    out.println(fileType);
    out.print("LogLength: ");
    out.println(fileLengthStr);
    out.println("Log Contents:");

    int curRead = 0;
    long pendingRead = fileLength - curRead;
    int toRead =
        pendingRead > buf.length ? buf.length : (int) pendingRead;
    int len = valueStream.read(buf, 0, toRead);
    while (len != -1 && curRead < fileLength) {
        out.write(buf, 0, len);
        curRead += len;
        pendingRead = fileLength - curRead;
        toRead =
            pendingRead > buf.length ? buf.length : (int) pendingRead;
        len = valueStream.read(buf, 0, toRead);
    }
    out.println("\n");
}

public void close() throws IOException {
    this.scanner.close();
    this.fsDataIStream.close();
}

@Private
public static class ContainerLogsReader {
    private DataInputStream valueStream;
    private String currentLogType = null;
    private long currentLogLength = 0;
    private BoundedInputStream currentLogData = null;
    private InputStreamReader currentLogISR;
public ContainerLogsReader(DataInputStream stream) {
    valueStream = stream;
}

public String nextLog() throws IOException {
    if (currentLogData != null && currentLogLength > 0) {
        // seek to the end of the current log, relying on BoundedInputStream
        // to prevent seeking past the end of the current log
        do {
            if (currentLogData.skip(currentLogLength) < 0) {
                break;
            }
        } while (currentLogData.read() != -1);
    }

    currentLogType = null;
    currentLogLength = 0;
    currentLogData = null;
    currentLogISR = null;

    try {
        String logType = valueStream.readUTF();
        String logLengthStr = valueStream.readUTF();
        currentLogLength = Long.parseLong(logLengthStr);
        currentLogData =
            new BoundedInputStream(valueStream, currentLogLength);
        currentLogData.setPropagateClose(false);
        currentLogISR = new InputStreamReader(currentLogData);
        currentLogType = logType;
    } catch (EOFException e) {
    }

    return currentLogType;
}

public String getCurrentLogType() {
    return currentLogType;
}

public long getCurrentLogLength() {
    return currentLogLength;
}

public long skip(long n) throws IOException {
    return currentLogData.skip(n);
}
public int read(byte[] buf, int off, int len) throws IOException {
    return currentLogData.read(buf, off, len);
}

public int read(char[] buf, int off, int len) throws IOException {
    return currentLogISR.read(buf, off, len);
}

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 */

package org.apache.hadoop.yarn.api.impl.pb.service;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.ApplicationClientProtocol;
import org.apache.hadoop.yarn.api.ApplicationClientProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoResponse;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.ApplicationClientProtocol;
import org.apache.hadoop.yarn.api.ApplicationClientProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationReportRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetNewApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.SubmitApplicationRequestProto;
import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ApplicationClientProtocolPBServiceImpl implements ApplicationClientProtocolPB {
    private ApplicationClientProtocol real;

    public ApplicationClientProtocolPBServiceImpl(ApplicationClientProtocol impl) {
        this.real = impl;
    }

    @Override
    public KillApplicationResponseProto forceKillApplication(RpcController arg0,
                                                             KillApplicationRequestProto proto) throws ServiceException {
        KillApplicationRequestPBImpl request = new KillApplicationRequestPBImpl(proto);
        try {
            KillApplicationResponse response = real.forceKillApplication(request);
            return ((KillApplicationResponsePBImpl)response).getProto();
        } catch (YarnException e) {
            throw new ServiceException(e);
        } catch (IOException e) {
            throw new ServiceException(e);
        }
    }

    @Override
    public GetApplicationReportResponseProto getApplicationReport(RpcController arg0,
                                                                     GetApplicationReportRequestProto proto)
                                                                     throws ServiceException {
        GetApplicationReportRequestPBImpl request = new GetApplicationReportRequestPBImpl(proto);
        try {
            GetApplicationReportResponse response = real.getApplicationReport(request);
            return ((GetApplicationReportResponsePBImpl)response).getProto();
        } catch (YarnException e) {
            throw new ServiceException(e);
        } catch (IOException e) {
            throw new ServiceException(e);
        }
    }

    @Override
    public GetClusterMetricsResponseProto getClusterMetrics(RpcController arg0,
                                                             GetClusterMetricsRequestProto proto)
                                                             throws ServiceException {
        GetClusterMetricsRequestPBImpl request = new GetClusterMetricsRequestPBImpl(proto);
        try {
            GetClusterMetricsResponse response = real.getClusterMetrics(request);
            return ((GetClusterMetricsResponsePBImpl)response).getProto();
        } catch (YarnException e) {
            throw new ServiceException(e);
        } catch (IOException e) {
            throw new ServiceException(e);
        }
    }
}
public GetNewApplicationResponseProto getNewApplication(
    RpcController arg0, GetNewApplicationRequestProto proto)
    throws ServiceException {
    GetNewApplicationRequestPBImpl request = new GetNewApplicationRequestPBImpl(proto);
    try {
        GetNewApplicationResponse response = real.getNewApplication(request);
        return ((GetNewApplicationResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

public SubmitApplicationResponseProto submitApplication(RpcController arg0,
    SubmitApplicationRequestProto proto) throws ServiceException {
    SubmitApplicationRequestPBImpl request = new SubmitApplicationRequestPBImpl(proto);
    try {
        SubmitApplicationResponse response = real.submitApplication(request);
        return ((SubmitApplicationResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

public GetApplicationsResponseProto getApplications(
    RpcController controller, GetApplicationsRequestProto proto)
    throws ServiceException {
    GetApplicationsRequestPBImpl request = new GetApplicationsRequestPBImpl(proto);
    try {
        GetApplicationsResponse response = real.getApplications(request);
        return ((GetApplicationsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
throw new ServiceException(e);
}

@Override
public GetClusterNodesResponseProto getClusterNodes(RpcController controller,
        GetClusterNodesRequestProto proto) throws ServiceException
{
    GetClusterNodesRequestPBImpl request =
        new GetClusterNodesRequestPBImpl(proto);
    try {
        GetClusterNodesResponse response = real.getClusterNodes(request);
        return ((GetClusterNodesResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public GetQueueInfoResponseProto getQueueInfo(RpcController controller,
        GetQueueInfoRequestProto proto) throws ServiceException
{
    GetQueueInfoRequestPBImpl request =
        new GetQueueInfoRequestPBImpl(proto);
    try {
        GetQueueInfoResponse response = real.getQueueInfo(request);
        return ((GetQueueInfoResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public GetQueueUserAclsInfoResponseProto getQueueUserAcls(
        RpcController controller, GetQueueUserAclsInfoRequestProto proto)
        throws ServiceException
{
    GetQueueUserAclsInfoRequestPBImpl request =
        new GetQueueUserAclsInfoRequestPBImpl(proto);
    try {
        GetQueueUserAclsInfoResponse response = real.getQueueUserAcls(request);
        return ((GetQueueUserAclsInfoResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}
@Override
public GetDelegationTokenResponseProto getDelegationToken(RpcController controller, GetDelegationTokenRequestProto proto) throws ServiceException {
    GetDelegationTokenRequestPBImpl request = new GetDelegationTokenRequestPBImpl(proto);
    try {
        GetDelegationTokenResponse response = real.getDelegationToken(request);
        return ((GetDelegationTokenResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RenewDelegationTokenResponseProto renewDelegationToken(RpcController controller, RenewDelegationTokenRequestProto proto) throws ServiceException {
    RenewDelegationTokenRequestPBImpl request = new RenewDelegationTokenRequestPBImpl(proto);
    try {
        RenewDelegationTokenResponse response = real.renewDelegationToken(request);
        return ((RenewDelegationTokenResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public CancelDelegationTokenResponseProto cancelDelegationToken(RpcController controller, CancelDelegationTokenRequestProto proto) throws ServiceException {
    CancelDelegationTokenRequestPBImpl request = new CancelDelegationTokenRequestPBImpl(proto);
    try {
        CancelDelegationTokenResponse response = real.cancelDelegationToken(request);
        return ((CancelDelegationTokenResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.List;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;

public class StartContainersRequestPBImpl extends StartContainersRequest {
    StartContainersRequestProto proto = StartContainersRequestProto.getDefaultInstance();
    StartContainersRequestProto.Builder builder = null;
    boolean viaProto = false;
    private List<StartContainerRequest> requests = null;

    public StartContainersRequestPBImpl() {
        builder = StartContainersRequestProto.newBuilder();
    }

    public StartContainersRequestPBImpl(StartContainersRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public StartContainersRequestPBImpl(StartContainersRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }
}

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 */
public StartContainersRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (requests != null) {
        addLocalRequestsToProto();
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StartContainersRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private void addLocalRequestsToProto() {
    maybeInitBuilder();
    builder.clearStartContainerRequest();
    List<StartContainerRequestProto> protoList =

Open Source Used In Tetration 3.5.1  37797
new ArrayList<StartContainerRequestProto>();
for (StartContainerRequest r : this.requests) {
    protoList.add(convertToProtoFormat(r));
}
builder.addAllStartContainerRequest(protoList);
}

private void initLocalRequests() {
    StartContainersRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<StartContainerRequestProto> requestList =
        p.getStartContainerRequestList();
    this.requests = new ArrayList<StartContainerRequest>();
    for (StartContainerRequestProto r : requestList) {
        this.requests.add(convertFromProtoFormat(r));
    }
}

@Override
public void setStartContainerRequests(List<StartContainerRequest> requests) {
    maybeInitBuilder();
    if (requests == null) {
        builder.clearStartContainerRequest();
    }
    this.requests = requests;
}

@Override
public List<StartContainerRequest> getStartContainerRequests() {
    if (this.requests != null) {
        return this.requests;
    }
    initLocalRequests();
    return this.requests;
}

private StartContainerRequestPBImpl convertFromProtoFormat(StartContainerRequestProto p) {
    return new StartContainerRequestPBImpl(p);
}

private StartContainerRequestProto convertToProtoFormat(StartContainerRequest t) {
    return ((StartContainerRequestPBImpl) t).getProto();
}

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package org.apache.hadoop.yarn.factories.impl.pb;

import java.io.IOException;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.net.InetSocketAddress;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.Server;
import org.apache.hadoop.security.token.SecretManager;
import org.apache.hadoop.security.token.TokenIdentifier;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.factories.RpcServerFactory;
import com.google.protobuf.BlockingService;

@Private
public class RpcServerFactoryPBImpl implements RpcServerFactory {

private static final Log LOG = LogFactory.getLog(RpcServerFactoryPBImpl.class);
private static final String PROTO_GEN_PACKAGE_NAME = "org.apache.hadoop.yarn.proto";
private static final String PROTO_GEN_CLASS_SUFFIX = "Service";
private static final String PB_IMPL_PACKAGE_SUFFIX = "impl.pb.service";
private static final String PB_IMPL_CLASS_SUFFIX = "PBServiceImpl";
private static final RpcServerFactoryPBImpl self = new RpcServerFactoryPBImpl();

private Configuration localConf = new Configuration();
private ConcurrentMap<Class<?>, Constructor<?>> serviceCache = new ConcurrentHashMap<Class<?>, Constructor<?>>();
private ConcurrentMap<Class<?>, Method> protoCache = new ConcurrentHashMap<Class<?>, Method>();

public static RpcServerFactoryPBImpl get() {
    return RpcServerFactoryPBImpl.self;
}

private RpcServerFactoryPBImpl() {
}

public Server getServer(Class<?> protocol, Object instance, InetSocketAddress addr, Configuration conf, SecretManager<? extends TokenIdentifier> secretManager, int numHandlers) {
    return getServer(protocol, instance, addr, conf, secretManager, numHandlers, null);
}

@Override
public Server getServer(Class<?> protocol, Object instance, InetSocketAddress addr, Configuration conf, SecretManager<? extends TokenIdentifier> secretManager, int numHandlers, String portRangeConfig) {

    Constructor<?> constructor = serviceCache.get(protocol);
    if (constructor == null) {
        Class<?> pbServiceImplClazz = null;
        try {
            pbServiceImplClazz = localConf.getClassByName(getPbServiceImplClassName(protocol));
        } catch (ClassNotFoundException e) {
            throw new YarnRuntimeException("Failed to load class: ", e);
        }
        try {
            constructor = pbServiceImplClazz.getConstructor(protocol);
            constructor.setAccessible(true);
            serviceCache.putIfAbsent(protocol, constructor);
        } catch (NoSuchMethodException e) {
            throw new YarnRuntimeException("Could not find constructor with params: ", new YarnRuntimeException("Failed to load class: ", e);
        }
    }
    try {
        constructor = pbServiceImplClazz.getConstructor(protocol);
        constructor.setAccessible(true);
        serviceCache.putIfAbsent(protocol, constructor);
    } catch (NoSuchMethodException e) {
        throw new YarnRuntimeException("Could not find constructor with params: ", new YarnRuntimeException("Failed to load class: ", e);
    }
}
Object service = null;
try {
    service = constructor.newInstance(instance);
} catch (InvocationTargetException e) {
    throw new YarnRuntimeException(e);
} catch (IllegalAccessException e) {
    throw new YarnRuntimeException(e);
} catch (InstantiationException e) {
    throw new YarnRuntimeException(e);
}
Class<?> pbProtocol = service.getClass().getInterfaces()[0];
Method method = protoCache.get(protocol);
if (method == null) {
    Class<?> protoClazz = null;
    try {
        protoClazz = localConf.getClassByName(getProtoClassName(protocol));
    } catch (ClassNotFoundException e) {
        throw new YarnRuntimeException("Failed to load class: ", e);
    }
    try {
        method = protoClazz.getMethod("newReflectiveBlockingService",
            pbProtocol.getInterfaces()[0]);
        method.setAccessible(true);
        protoCache.putIfAbsent(protocol, method);
    } catch (NoSuchMethodException e) {
        throw new YarnRuntimeException(e);
    }
}
try {
    return createServer(pbProtocol, addr, conf, secretManager, numHandlers,
            (BlockingService)method.invoke(null, service), portRangeConfig);
} catch (InvocationTargetException e) {
    throw new YarnRuntimeException(e);
} catch (IllegalAccessException e) {
    throw new YarnRuntimeException(e);
} catch (IOException e) {
    throw new YarnRuntimeException(e);
}
}

private String getProtoClassName(Class<?> clazz) {
    String srcClassName = getClassName(clazz);
    return PROTO_GEN_PACKAGE_NAME + "." + srcClassName + "$" + srcClassName + PROTO_GEN_CLASS_SUFFIX;
private String getPbServiceImplClassName(Class<?> clazz) {
    String srcPackagePart = getPackageName(clazz);
    String srcClassName = getClassName(clazz);
    String destPackagePart = srcPackagePart + "." + PB_IMPL_PACKAGE_SUFFIX;
    String destClassPart = srcClassName + PB_IMPL_CLASS_SUFFIX;
    return destPackagePart + "." + destClassPart;
}

private String getClassName(Class<?> clazz) {
    String fqName = clazz.getName();
    return (fqName.substring(fqName.lastIndexOf("." + 1, fqName.length()));
}

private String getPackageName(Class<?> clazz) {
    return clazz.getPackage().getName();
}

private Server createServer(Class<?> pbProtocol, InetSocketAddress addr, Configuration conf,
    SecretManager<? extends TokenIdentifier> secretManager, int numHandlers,
    BlockingService blockingService, String portRangeConfig) throws IOException {
    RPC.setProtocolEngine(conf, pbProtocol, ProtobufRpcEngine.class);
        .setInstance(blockingService).setBindAddress(addr.getHostName())
        .setPort(addr.getPort()).setNumHandlers(numHandlers).setVerbose(false)
        .setSecretManager(secretManager).setPortRangeConfig(portRangeConfig)
        .build();
    LOG.info("Adding protocol "+pbProtocol.getCanonicalName()+" to the server");
    server.addProtocol(RPC.RpcKind.RPC_PROTOCOL_BUFFER, pbProtocol, blockingService);
    return server;
}

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import java.util.ArrayList;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ResourceBlacklistRequest;

@Private
@Unstable
public class ResourceBlacklistRequestPBImpl extends ResourceBlacklistRequest {

    ResourceBlacklistRequestProto proto = null;
    ResourceBlacklistRequestProto.Builder builder = null;
    boolean viaProto = false;

    List<String> blacklistAdditions = null;
    List<String> blacklistRemovals = null;

    public ResourceBlacklistRequestPBImpl() {
        builder = ResourceBlacklistRequestProto.newBuilder();
    }

    public ResourceBlacklistRequestPBImpl(ResourceBlacklistRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public ResourceBlacklistRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = ResourceBlacklistRequestProto.newBuilder(proto);
        }
        viaProto = false;
    }
}
private void mergeLocalToProto() {
    if (viaProto) {
        maybeInitBuilder();
    }
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (this.blacklistAdditions != null) {
        addBlacklistAdditionsToProto();
    }
    if (this.blacklistRemovals != null) {
        addBlacklistRemovalsToProto();
    }
}

private void addBlacklistAdditionsToProto() {
    maybeInitBuilder();
    builder.clearBlacklistAdditions();
    if (this.blacklistAdditions == null) {
        return;
    }
    builder.addAllBlacklistAdditions(this.blacklistAdditions);
}

private void addBlacklistRemovalsToProto() {
    maybeInitBuilder();
    builder.clearBlacklistAdditions();
    if (this.blacklistRemovals == null) {
        return;
    }
    builder.addAllBlacklistRemovals(this.blacklistRemovals);
}

private void initBlacklistAdditions() {
    if (this.blacklistAdditions != null) {
        return;
    }
    ResourceBlacklistRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<String> list = p.getBlacklistAdditionsList();
    this.blacklistAdditions = new ArrayList<String>(){
        this.blacklistAdditions.addAll(list);
    }
}

private void initBlacklistRemovals() {
    if (this.blacklistRemovals != null) {
        // code
    }
}

private void initBlacklistRemovals() {
    if (this.blacklistRemovals != null) {
        // code
    }
}
@Override
public List<String> getBlacklistAdditions() {
    initBlacklistAdditions();
    return this.blacklistAdditions;
}

@Override
public void setBlacklistAdditions(List<String> resourceNames) {
    if (resourceNames == null || resourceNames.isEmpty()) {
        if (this.blacklistAdditions != null) {
            this.blacklistAdditions.clear();
        }
        return;
    }
    initBlacklistAdditions();
    this.blacklistAdditions.clear();
    this.blacklistAdditions.addAll(resourceNames);
}

@Override
public List<String> getBlacklistRemovals() {
    initBlacklistRemovals();
    return this.blacklistRemovals;
}

@Override
public void setBlacklistRemovals(List<String> resourceNames) {
    if (resourceNames == null || resourceNames.isEmpty()) {
        if (this.blacklistRemovals != null) {
            this.blacklistRemovals.clear();
        }
        return;
    }
    initBlacklistRemovals();
    this.blacklistRemovals.clear();
    this.blacklistRemovals.addAll(resourceNames);
}

@Override
public int hashCode() {

}
return getProto().hashCode();
}

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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenRequest;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class CancelDelegationTokenRequestPBImpl extends
CancelDelegationTokenRequest {

CancelDelegationTokenRequestProto proto = CancelDelegationTokenRequestProto
.getDefaultInstance();
CancelDelegationTokenRequestProto.Builder builder = null;
boolean viaProto = false;

public CancelDelegationTokenRequestPBImpl() {
    builder = CancelDelegationTokenRequestProto.newBuilder();
}

import com.google.protobuf.TextFormat;
public CancelDelegationTokenRequestPBImpl(
    CancelDelegationTokenRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

Token token;

@Override
public Token getDelegationToken() {
    CancelDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.token != null) {
        return this.token;
    }
    this.token = convertFromProtoFormat(p.getToken());
    return this.token;
}

@Override
public void setDelegationToken(Token token) {
    maybeInitBuilder();
    if (token == null)
        builder.clearToken();
    this.token = token;
}

public CancelDelegationTokenRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}
@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (token != null) {
        builder.setToken(convertToProtoFormat(this.token));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = CancelDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private TokenPBImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBImpl) t).getProto();
}

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*/

package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.Resource;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class ApplicationResourceUsageReportPBImpl
extends ApplicationResourceUsageReport {
  ApplicationResourceUsageReportProto proto =
    ApplicationResourceUsageReportProto.getDefaultInstance();
  boolean viaProto = false;

  Resource usedResources;
  Resource reservedResources;
  Resource neededResources;

  public ApplicationResourceUsageReportPBImpl() {
    builder = ApplicationResourceUsageReportProto.newBuilder();
  }

  public ApplicationResourceUsageReportPBImpl(
      ApplicationResourceUsageReportProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public synchronized ApplicationResourceUsageReportProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return super.hashCode();
  }
}
return getProto().hashCode();
}

@override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.usedResources != null
        && !((ResourcePBImpl) this.usedResources).getProto().equals(
            builder.getUsedResources())) {
        builder.setUsedResources(convertToProtoFormat(this.usedResources));
    }
    if (this.reservedResources != null
        && !((ResourcePBImpl) this.reservedResources).getProto().equals(
            builder.getReservedResources())) {
        builder.setReservedResources(convertToProtoFormat(this.reservedResources));
    }
    if (this.neededResources != null
        && !((ResourcePBImpl) this.neededResources).getProto().equals(
            builder.getNeededResources())) {
        builder.setNeededResources(convertToProtoFormat(this.neededResources));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = ApplicationResourceUsageReportProto.newBuilder(proto);
    }
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = ApplicationResourceUsageReportProto.newBuilder(proto);
    }
}
@Override
public synchronized int getNumUsedContainers() {
    return (p.getNumUsedContainers());
}

@Override
public synchronized void setNumUsedContainers(int num_containers) {
    maybeInitBuilder();
    builder.setNumUsedContainers((num_containers));
}

@Override
public synchronized int getNumReservedContainers() {
    return (p.getNumReservedContainers());
}

@Override
public synchronized void setNumReservedContainers(int num_reserved_containers) {
    maybeInitBuilder();
    builder.setNumReservedContainers((num_reserved_containers));
}

@Override
public synchronized Resource getUsedResources() {
    if (this.usedResources != null) {
        return this.usedResources;
    } else if (!p.hasUsedResources()) {
        return null;
    }
    this.usedResources = convertFromProtoFormat(p.getUsedResources());
    return this.usedResources;
}

@Override
public synchronized void setUsedResources(Resource resources) {
    maybeInitBuilder();
    if (resources == null)
        builder.clearUsedResources();
    this.usedResources = resources;
@Override
public synchronized Resource getReservedResources() {
    if (this.reservedResources != null) {
        return this.reservedResources;
    }
    if (!p.hasReservedResources()) {
        return null;
    }
    this.reservedResources = convertFromProtoFormat(p.getReservedResources());
    return this.reservedResources;
}

@Override
public synchronized void setReservedResources(Resource reserved_resources) {
    maybeInitBuilder();
    if (reserved_resources == null)
        builder.clearReservedResources();
    this.reservedResources = reserved_resources;
}

@Override
public synchronized Resource getNeededResources() {
    if (this.neededResources != null) {
        return this.neededResources;
    }
    if (!p.hasNeededResources()) {
        return null;
    }
    this.neededResources = convertFromProtoFormat(p.getNeededResources());
    return this.neededResources;
}

@Override
public synchronized void setNeededResources(Resource reserved_resources) {
    maybeInitBuilder();
    if (reserved_resources == null)
        builder.clearNeededResources();
    this.neededResources = reserved_resources;
}

private ResourcePBImpl convertFromProtoFormat(ResourceProto p) {
    return new ResourcePBImpl(p);
}
private ResourceProto convertToProtoFormat(Resource t) {
    return ((ResourcePBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.records.AMCommand;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.NMToken;
import org.apache.hadoop.yarn.api.records.PreemptionMessage;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerStatusPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.NMTokenPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import org.apache.hadoop.yarn.api.records.impl.pb.ResourcePBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class AllocateResponsePBImpl extends AllocateResponse {
  AllocateResponseProto proto = AllocateResponseProto.getDefaultInstance();
  AllocateResponseProto.Builder builder = null;
  boolean viaProto = false;

  Resource limit;

  private List<Container> allocatedContainers = null;
  private List<NMToken> nmTokens = null;
  private List<ContainerStatus> completedContainersStatuses = null;

  private List<NodeReport> updatedNodes = null;
  private PreemptionMessage preempt;

  public AllocateResponsePBImpl() {
    builder = AllocateResponseProto.newBuilder();
  }

  public AllocateResponsePBImpl(AllocateResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public synchronized AllocateResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
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  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public int hashCode() {
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private synchronized void mergeLocalToBuilder() {
    if (this.allocatedContainers != null) {
        builder.clearAllocatedContainers();
        Iterable<ContainerProto> iterable =
            getProtoIterable(this.allocatedContainers);
        builder.addAllAllocatedContainers(iterable);
    }
    if (nmTokens != null) {
        builder.clearNmTokens();
        Iterable<NMTokenProto> iterable = getTokenProtoIterable(nmTokens);
        builder.addAllNmTokens(iterable);
    }
    if (this.completedContainersStatuses != null) {
        builder.clearCompletedContainerStatuses();
        Iterable<ContainerStatusProto> iterable =
            getContainerStatusProtoIterable(this.completedContainersStatuses);
        builder.addAllCompletedContainerStatuses(iterable);
    }
    if (this.updatedNodes != null) {
        builder.clearUpdatedNodes();
        Iterable<NodeReportProto> iterable =
            getNodeReportProtoIterable(this.updatedNodes);
        builder.addAllUpdatedNodes(iterable);
    }
    if (this.limit != null) {
        builder.setLimit(convertToProtoFormat(this.limit));
    }
    if (this.preempt != null) {
        builder.setPreempt(convertToProtoFormat(this.preempt));
    }
}

private synchronized void mergeLocalToProto() {
    if (viaProto)
maybeInitBuilder();
mergeLocalToBuilder();
proto = builder.build();
viaProto = true;
}

private synchronized void maybeInitBuilder() {
if (viaProto || builder == null) {
    builder = AllocateResponseProto.newBuilder(proto);
}
viaProto = false;
}

@Override
public synchronized AMCommand getAMCommand() {
AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
if (!p.hasAMCommand()) {
    return null;
}
return ProtoUtils.convertFromProtoFormat(p.getAMCommand());
}

@Override
public synchronized void setAMCommand(AMCommand command) {
maybeInitBuilder();
if (command == null) {
    builder.clearAMCommand();
    return;
}
banner.setAMCommand(ProtoUtils.convertToProtoFormat(command));
}

@Override
public synchronized int getResponseId() {
AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
return (p.getResponseId());
}

@Override
public synchronized void setResponseId(int responseId) {
maybeInitBuilder();
banner.setResponseId((responseId));
}

@Override
public synchronized Resource getAvailableResources() {
if (this.limit != null) {
    return this.limit;
}
AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
if (!p.hasLimit()) {
    return null;
}
this.limit = convertFromProtoFormat(p.getLimit());
return this.limit;

@Override
public synchronized void setAvailableResources(Resource limit) {
    maybeInitBuilder();
    if (limit == null)
        builder.clearLimit();
    this.limit = limit;
}

@Override
public synchronized List<NodeReport> getUpdatedNodes() {
    initLocalNewNodeReportList();
    return this.updatedNodes;
}

@Override
public synchronized void setUpdatedNodes(final List<NodeReport> updatedNodes) {
    if (updatedNodes == null) {
        this.updatedNodes.clear();
        return;
    }
    this.updatedNodes = new ArrayList<NodeReport>(updatedNodes.size());
    this.updatedNodes.addAll(updatedNodes);
}

@Override
public synchronized List<Container> getAllocatedContainers() {
    initLocalNewContainerList();
    return this.allocatedContainers;
}

@Override
public synchronized void setAllocatedContainers(final List<Container> containers) {
    if (containers == null)
        return;
    // this looks like a bug because it results in append and not set
    initLocalNewContainerList();
    allocatedContainers.addAll(containers);
public synchronized List<ContainerStatus> getCompletedContainersStatuses() {
    initLocalFinishedContainerList();
    return this.completedContainersStatuses;
}

public synchronized void setCompletedContainersStatuses(
    final List<ContainerStatus> containers) {
    if (containers == null)
        return;
    initLocalFinishedContainerList();
    completedContainersStatuses.addAll(containers);
}

public synchronized void setNMTokens(List<NMToken> nmTokens) {
    if (nmTokens == null || nmTokens.isEmpty()) {
        if (this.nmTokens != null) {
            this.nmTokens.clear();
        }
        builder.clearNmTokens();
        return;
    }
    // Implementing it as an append rather than set for consistency
    initLocalNewNMTokenList();
    this.nmTokens.addAll(nmTokens);
}

public synchronized List<NMToken> getNMTokens() {
    initLocalNewNMTokenList();
    return nmTokens;
}

public synchronized int getNumClusterNodes() {
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    return p.getNumClusterNodes();
}

public synchronized void setNumClusterNodes(int numNodes) {
    maybeInitBuilder();
    builder.setNumClusterNodes(numNodes);
}
@Override
public synchronized PreemptionMessage getPreemptionMessage() {
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.preempt != null) {
        return this.preempt;
    }
    if (!p.hasPreempt()) {
        return null;
    }
    this.preempt = convertFromProtoFormat(p.getPreempt());
    return this.preempt;
}

@Override
public synchronized void setPreemptionMessage(PreemptionMessage preempt) {
    maybeInitBuilder();
    if (null == preempt) {
        builder.clearPreempt();
    }
    this.preempt = preempt;
}

// Once this is called. updatedNodes will never be null - until a getProto is
// called.
private synchronized void initLocalNewNodeReportList() {
    if (this.updatedNodes != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<NodeReportProto> list = p.getUpdatedNodesList();
    updatedNodes = new ArrayList<NodeReport>(list.size());
    for (NodeReportProto n : list) {
        updatedNodes.add(convertFromProtoFormat(n));
    }
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private synchronized void initLocalNewContainerList() {
    if (this.allocatedContainers != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerProto> list = p.getAllocatedContainersList();
    allocatedContainers = new ArrayList<Container>();
    for (ContainerProto n : list) {
        allocatedContainers.add(convertFromProtoFormat(n));
    }
}
for (ContainerProto c : list) {
    allocatedContainers.add(convertFromProtoFormat(c));
}

private synchronized void initLocalNewNMTokenList() {
    if (nmTokens != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<NMTokenProto> list = p.getNmTokensList();
    nmTokens = new ArrayList<NMToken>();
    for (NMTokenProto t : list) {
        nmTokens.add(convertFromProtoFormat(t));
    }
}

private synchronized Iterable<ContainerProto> getProtoIterable(
    final List<Container> newContainersList) {
    maybeInitBuilder();
    return new Iterable<ContainerProto>() {
        @Override
        public synchronized Iterator<ContainerProto> iterator() {
            @Override
            public synchronized boolean hasNext() {
                return iter.hasNext();
            }

            @Override
            public synchronized ContainerProto next() {
                return convertToProtoFormat(iter.next());
            }

            @Override
            public synchronized void remove() {
                throw new UnsupportedOperationException();
            }
        }
    };
}
private synchronized Iterable<NMTokenProto> getTokenProtoIterable(
    final List<NMToken> nmTokenList) {
    maybeInitBuilder();
    return new Iterable<NMTokenProto>() {
        @Override
        public synchronized Iterator<NMTokenProto> iterator() {
            return new Iterator<NMTokenProto>() {
                Iterator<NMToken> iter = nmTokenList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                publicNMTokenProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
}

private synchronized Iterable<ContainerStatusProto>
getContainerStatusProtoIterable(
    final List<ContainerStatus> newContainersList) {
    maybeInitBuilder();
    return new Iterable<ContainerStatusProto>() {
        @Override
        public synchronized Iterator<ContainerStatusProto> iterator() {
            return new Iterator<ContainerStatusProto>() {
                Iterator<ContainerStatus> iter = newContainersList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ContainerStatusProto next() {
    return convertToProtoFormat(iter.next());
    }

    @Override
    public synchronized void remove() {
        throw new UnsupportedOperationException();
    }
    };
}
}

private synchronized Iterable<NodeReportProto>
getNodeReportProtoIterable(  
    final List<NodeReport> newNodeReportsList) {
    maybeInitBuilder();
    return new Iterable<NodeReportProto>() {
        @Override
        public synchronized Iterator<NodeReportProto> iterator() {
            return new Iterator<NodeReportProto>() {
                Iterator<NodeReport> iter = newNodeReportsList.iterator();

                @Override
                public synchronized boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public synchronized NodeReportProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public synchronized void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private synchronized void initLocalFinishedContainerList() {
    if (this.completedContainersStatuses != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerStatusProto> list = p.getCompletedContainerStatusesList();
    completedContainersStatuses = new ArrayList<ContainerStatus>();

    for (ContainerStatusProto c : list) {
        completedContainersStatuses.add(convertFromProtoFormat(c));
    }
}

private synchronized NodeReportPBImpl convertFromProtoFormat(
    NodeReportProto p) {
    return new NodeReportPBImpl(p);
}

private synchronized NodeReportProto convertToProtoFormat(NodeReport t) {
    return ((NodeReportPBImpl)t).getProto();
}

private synchronized ContainerPBImpl convertFromProtoFormat(
    ContainerProto p) {
    return new ContainerPBImpl(p);
}

private synchronized ContainerProto convertToProtoFormat(Container t) {
    return ((ContainerPBImpl)t).getProto();
}

private synchronized ContainerStatusPBImpl convertFromProtoFormat(
    ContainerStatusProto p) {
    return new ContainerStatusPBImpl(p);
}

private synchronized ContainerStatusProto convertToProtoFormat(ContainerStatus t) {
    return ((ContainerStatusPBImpl)t).getProto();
}

private synchronized ResourcePBImpl convertFromProtoFormat(ResourceProto p) {
    return new ResourcePBImpl(p);
}

private synchronized ResourceProto convertToProtoFormat(Resource r) {
    return ((ResourcePBImpl)r).getProto();
}
private synchronized PreemptionMessagePBImpl convertFromProtoFormat(PreemptionMessageProto p) {
    return new PreemptionMessagePBImpl(p);
}

private synchronized PreemptionMessageProto convertToProtoFormat(PreemptionMessage r) {
    return ((PreemptionMessagePBImpl)r).getProto();
}

private synchronized NMTokenProto convertToProtoFormat(NMToken token) {
    return ((NMTokenPBImpl)token).getProto();
}

private synchronized NMToken convertFromProtoFormat(NMTokenProto proto) {
    return new NMTokenPBImpl(proto);
}

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 */

package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ApplicationAttemptId;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationAttemptIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationAttemptIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;

import com.google.common.base.Preconditions;

@Private
@Unstable
public class ContainerIdPBImpl extends ContainerId {
    ContainerIdProto proto = null;
    ContainerIdProto.Builder builder = null;
    private ApplicationAttemptId applicationAttemptId = null;

    public ContainerIdPBImpl() {
        builder = ContainerIdProto.newBuilder();
    }

    public ContainerIdPBImpl(ContainerIdProto proto) {
        this.proto = proto;
        this.applicationAttemptId = convertFromProtoFormat(proto.getAppAttemptId());
    }

    public ContainerIdProto getProto() {
        return proto;
    }

    @Override
    public int getId() {
        Preconditions.checkNotNull(proto);
        return proto.getId();
    }

    @Override
    protected void setId(int id) {
        Preconditions.checkNotNull(builder);
        builder.setId((id));
    }

    @Override
    public ApplicationAttemptId getApplicationAttemptId() {
        return this.applicationAttemptId;
    }

    @Override
    protected void setApplicationAttemptId(ApplicationAttemptId atId) {
        if (atId != null) {
            Preconditions.checkNotNull(builder);
            builder.setAppAttemptId(convertToProtoFormat(atId));
        }
        this.applicationAttemptId = atId;
    }

    private ApplicationAttemptIdPBImpl convertFromProtoFormat(
            ApplicationAttemptIdProto p) {
        return new ApplicationAttemptIdPBImpl(p);
    }
private ApplicationAttemptIdProto convertToProtoFormat(
    ApplicationAttemptId t) {
    return ((ApplicationAttemptIdPBImpl)t).getProto();
}

@Override
protected void build() {
    proto = builder.build();
    builder = null;
}

1.3408 lang-expression 6.7.0

1.3409 pyserial 2.6-1build1

1.3409.1 Available under license:

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1.3410 woodstox-core 5.0.3
1.3410.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1135953508_1613640887.59/0/woodstox-core-5-0-3-3-jar/META-INF/maven/com.fasterxml.woodstox/woodstox-core/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1472011116283
Build-Jdk: 1.7.0_79
Built-By: tatu
Bundle-Description: Woodstox is a high-performance XML processor that implements Stax (JSR-173), SAX2 and Stax2 APIs
Bundle-Document-URL: https://github.com/FasterXML/woodstox
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-Manifest-Version: 2
Bundle-Name: Woodstox
Bundle-SymbolicName: com.fasterxml.woodstox.woodstox-core
Bundle-Vendor: FasterXML
Bundle-Version: 5.0.3
Created-By: Apache Maven Bundle Plugin
Export-Package: com.ctc.wstx.api;version="5.0.3",com.ctc.wstx.cfg;version="5.0.3",com.ctc.wstx.compat;version="5.0.3",com.ctc.wstx.dom;version="5.0.3",com.ctc.wstx.dtd;version="5.0.3",com.ctc.wstx.ent;version="5.0.3",com.ctc.wstx.evtx;version="5.0.3",com.ctc.wstx.excl;version="5.0.3",com.ctc.wstx.io;version="5.0.3",com.ctc.wstx.msv;version="5.0.3",com.ctc.wstx.osgi;version="5.0.3",com.ctc.wstx.sax;version="5.0.3",com.ctc.wstx.stream;version="5.0.3",com.ctc.wstx.stax;version="5.0.3",com.ctc.wstx.sw;version="5.0.3",com.ctc.wstx.util;version="5.0.3"
Implementation-Build-Date: 2016-08-24 03:58:19+0000
Implementation-Title: Woodstox
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.woodstox
Implementation-Version: 5.0.3
1.3411 sqlite 3.13.0

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1.3412 python-futures 3.2.0-1.ph3

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1.3413 patch 2.7.1-12.el7_7
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+++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and naming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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@end iftex
@ifinfo
@end ifinfo
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```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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@end smallexample
```

Also add information on how to contact you by electronic and paper mail.

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```
@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob` (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```
That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the GNU assembler, linker, and binary utilities.

This package was put together by me, James Troup <james@nocrew.org>, from sources, which I obtained from:


and:

cvs://:pserver:anone cvs@sources.redhat.com:/cvs/src

It was previously maintained by Christopher C. Chimelis <chris@debian.org>


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1.3439 tidy 20091223cvs-1.2ubuntu1.1

1.3439.1 Available under license:

No license file was found, but licenses were detected in source scan.

tidy-mark: no
output-xml: yes
drop-proprietary-attributes: no
new-inline-tags: o:lock, o:p, v-f, v-formula, v-formulas,
v-imagedata, v-path, v-shape, v-shapetype, v-stroke
new-empty-tags:
new-blocklevel-tags:
new-pre-tags:
wrap-sections: no
drop-empty-paras: no

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg_634889.txt
No license file was found, but licenses were detected in source scan.

/* @file tidyenum.h -- Split public enums into separate header

Simplifies enum re-use in various wrappers. e.g. SWIG
generated wrappers and COM IDL files.

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CVS Info:

$Author: arnaud02 $
$Date: 2008/06/18 20:18:54 $
$Revision: 1.18 $

Contributing Author(s):

Dave Raggett <dsr@w3.org>

The contributing author(s) would like to thank all those who
helped with testing, bug fixes and suggestions for improvements.
This wouldn't have been possible without your help.

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Created 2001-05-20 by Charles Reitzel
Updated 2002-07-01 by Charles Reitzel - 1st Implementation

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/include/tidyenum.h
No license file was found, but licenses were detected in source scan.

wrap: 68
tab-size: 4
repeated-attributes: keep-last
alt-text: None, says tidy
show-warnings: no
quiet: yes
indent: auto
indent-attributes: yes
output-xml: yes
output-xhtml: yes
add-xml-decl: yes
bare: yes
logical-emphasis: yes
drop-proprietary-attributes: yes
break-before-br: yes
quote-nbsp: no
assume-xml-procins: yes
keep-time: no
word-2000: yes
tidy-mark: no
literal-attributes: yes
hide-comments: yes
ascii-chars: no
join-styles: no
output-bom: no

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg_1067112.txt
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg_586555.txt
No license file was found, but licenses were detected in source scan.

/* If the document uses just HTML 2.0 tags and attributes described
** it as HTML 2.0 Similarly for HTML 3.2 and the 3 flavors of HTML 4.0.
** If there are proprietary tags and attributes then describe it as
** HTML Proprietary. If it includes the xml-lang or xmlns attributes
** but is otherwise HTML 2.0, 3.2 or 4.0 then describe it as one of the
** flavors of Voyager (strict, loose or frameset).
*/
/* proprietary stuff */
/* all proprietary types */
/* everything is allowed in proprietary version of HTML */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/lexer.h
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/configure.in
No license file was found, but licenses were detected in source scan.
<title>[ #427810 ] Proprietary elements not reported as err</title>
<blink>Proprietary inline element (blink)</blink>
<wbr>Proprietary inline element (wbr) - note starts on new line, doesn’t need end tag
<nobr>Proprietary inline element (nobr)</nobr>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/in_427810.html
No license file was found, but licenses were detected in source scan.

"BTidy" was written by Dave Raggett &lt;dfr@w3.org&gt;, and is now maintained and developed by the Tidy team at &lt;http://tidy.sourceforge.net&gt;. It is released under the MIT Licence.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/htmldoc/tidy1.xsl
No license file was found, but licenses were detected in source scan.

{ PROPRIETARY_ATTRIBUTE, "%s proprietary attribute \"%s\"" }, /* Error */
{ PROPRIETARY_ATTR_VALUE, "%s proprietary attribute value \"%s\"" }, /* Error */

"This option specifies if Tidy should strip out proprietary attributes,"
tidy_out(doc, "is recommended in preference to the proprietary <LAYER>\n");
tidy_out(doc, "The proprietary <SPACER> element has limited vendor support.\n");
vers = "HTML Proprietary";

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/localize.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/htmldoc/license.html
No license file was found, but licenses were detected in source scan.

/* proprietary elements */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/tags.c
No license file was found, but licenses were detected in source scan.
indent: auto
indent-attributes: yes
tidy-mark: no
clean: yes
drop-font-tags: yes
drop-proprietary-attributes: no

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg_695408.txt
No license file was found, but licenses were detected in source scan.

{ TidyDropPropAttrs, MU, "drop-proprietary-attributes", BL, no, ParseBool, boolPicks },

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/config.c
No license file was found, but licenses were detected in source scan.

/* known proprietary attributes that make the element significant */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/parser.c
No license file was found, but licenses were detected in source scan.

wrap: 68
tab-size: 4
repeated-attributes: keep-last
alt-text: None, says tidy
show-warnings: no
indent: auto
indent-attributes: yes
output-xml: yes
output-xhtml: yes
add-xml-decl: yes
bare: yes
logical-emphasis: yes
drop-proprietary-attributes: yes
break-before-br: yes
quote-nbsp: no
assume-xml-procins: yes
keep-time: no
word-2000: yes
tidy-mark: no
literal-attributes: yes
hide-comments: yes
ascii-chars: no
join-styles: no
output-bom: no
drop-empty-paras: no

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg_1359292.txt
No license file was found, but licenses were detected in source scan.

/*
tidy.c - HTML TidyLib command line driver

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CVS Info:

$Author: arnaud02 $
$Date: 2008/03/22 20:53:08 $
$Revision: 1.50 $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/console/tidy.c
No license file was found, but licenses were detected in source scan.

<li><b>Unknown/Proprietary attributes are reported</b></li>
<li><b>Proprietary elements are recognized and reported as</b></li>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/htmldoc/Overview.html
No license file was found, but licenses were detected in source scan.

/* ignore unknown attributes for proprietary elements */
/**
* Attribute sorting contributed by Adrian Wilkins, 2007
* 
* 
* Merge sort algorithm adapted from listsort.c linked from
* http://www.chiark.greenend.org.uk/~sgtatham/algorithms/listsort.html
* 
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* CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.
*/

No license file was found, but licenses were detected in source scan.

/* everything is allowed in proprietary version of HTML */
/
    if (!name)
        name = "HTML Proprietary";
    /*
/* Do not warn if emitted doctype is proprietary */

No license file was found, but licenses were detected in source scan.

/** @file tidy.h - Defines HTML Tidy API implemented by tidy library.

Public interface is const-correct and doesn't explicitly depend
on any globals. Thus, thread-safety may be introduced w/out
changing the interface.

Looking ahead to a C++ wrapper, C functions always pass
this-equivalent as 1st arg.
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CVS Info:

$Author: arnaud02 $
$Date: 2008/04/22 11:00:42 $
$Revision: 1.22 $

Contributing Author(s):

Dave Raggett <dsr@w3.org>

The contributing author(s) would like to thank all those who
helped with testing, bug fixes and suggestions for improvements.
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Created 2001-05-20 by Charles Reitzel
Updated 2002-07-01 by Charles Reitzel - 1st Implementation

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/include/tidy.h
No license file was found, but licenses were detected in source scan.

<TITLE>[ #473490 ] DOCTYPE for Proprietary HTML to XHTML bad</TITLE>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/in_473490.html
No license file was found, but licenses were detected in source scan.

proprietary tags such as server, ilayer, layer, nolayer and servlet. I have added it as a proprietary tag and parse it in the
add a link to a style sheet or to assert attribution. This sounds

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068483692_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/htmldoc/release-notes.html

1.3440 file-system 3.2-25.el7

1.3440.1 Available under license :
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Found in path(s):
* /opt/cola/permits/1135968273_1613642635.7/0/filesystem-3.2-25.el7-1.src.rpm-cosi-expand-archive-JwAhLO3I/filesystem.spec

1.3441 kerby-util 1.0.1
1.3441.1 Available under license:

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1.3442 vim 7.4.052-1ubuntu3

1.3442.1 Available under license:

*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.
There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
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IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
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under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterrueethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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1.3443 linux-kernel 4.4.0-148.174~14.04.1

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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(in case you are wondering where CyberLogin is, EON changed its login
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for merging the nxt2002 and nxt2004 modules into a
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   * Tim Martin
   * Rob Earhart
   * Rob Siemborski
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/**
 * Embedded non-blocking server and server bootstrap.
 */
package org.apache.http.impl.nio.bootstrap;

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import optparse
import sys

from ubuntutools.lp.lpapicache import (Launchpad, Distribution, PersonTeam,
    Packageset, PackageNotFoundException,
    SeriesNotFoundException)
from ubuntutools.logger import Logger
from ubuntutools.misc import split_release_pocket

def parse_arguments():
    """Parse arguments and return (options, package)""
    parser = optparse.OptionParser("%prog [options] package")
    parser.add_option('-r', '--release', default=None, metavar='RELEASE',
        help='Use RELEASE, rather than the current development release')
    parser.add_option('-a', '--list-uploaders',
        default=False, action='store_true',
        help='List all the people/teams with upload rights')
    parser.add_option('-t', '--list-team-members',
        default=False, action='store_true',
        help='List all team members of teams with upload rights'
        '(implies --list-uploaders)')
    options, args = parser.parse_args()

    if len(args) != 1:
        parser.error("One (and only one) package must be specified")
    package = args[0]

    if options.list_team_members:
        options.list_uploaders = True

    return (options, package)
def main():
    """Query upload permissions""
    options, package = parse_arguments()
    # Need to be logged in to see uploaders:
    Launchpad.login()

    ubuntu = Distribution('ubuntu')
    archive = ubuntu.getArchive()
    if options.release is None:
        options.release = ubuntu.getDevelopmentSeries().name
    try:
        release, pocket = split_release_pocket(options.release)
        series = ubuntu.getSeries(release)
    except SeriesNotFoundException, e:
        Logger.error(str(e))
        sys.exit(2)
    try:
        spph = archive.getSourcePackage(package)
    except PackageNotFoundException, e:
        Logger.error(str(e))
        sys.exit(2)
    component = spph.getComponent()
    if (options.list_uploaders and (pocket != 'Release' or series.status in
        ('Experimental', 'Active Development', 'Pre-release Freeze'))):
        component_uploader = archive.getUploadersForComponent(
            component_name=component)[0]
        print "All upload permissions for %s:" % package
        print "Component (%s)" % component
        print "=" * len(component)
        print_uploaders([component_uploader], options.list_team_members)

        packagesets = sorted(Packageset.setsIncludingSource(
            distroseries=series,
            sourcepackagename=package))
        if packagesets:
            print "Packagesets"" ==========="
            for packageset in packagesets:
                print "%s:" % packageset.name
                print_uploaders(archive.getUploadersForPackageset(
                    packageset=packageset), options.list_team_members)

    ppu_uploaders = archive.getUploadersForPackage(}
source_package_name=package)
if ppu_uploaders:
    print
    print "Per-Package-Uploaders"
    print "=====================
    print
    print_uploaders(ppu_uploaders, options.list_team_members)
    print
if PersonTeam.me.canUploadPackage(archive, series, package, component,
    pocket):
    print "You can upload %s to %s." % (package, options.release)
else:
    print ("You can not upload %s to %s, yourself."
        % (package, options.release))
    if (series.status in ('Current Stable Release', 'Supported', 'Obsolete')
        and pocket == 'Release'):
        print ("%s is in the %s state. 
            " % (release, series.status, release))
    else:
        print ("But you can still contribute to it via the sponsorshp 
            ")
        print("process: https://wiki.ubuntu.com/SponsorshipProcess")
    if not options.list_uploaders:
        print ("To see who has the necessary upload rights, 
            "
            "use the --list-uploaders option.")
    sys.exit(1)

def print_uploaders(uploaders, expand_teams=False, prefix=''): 
    """Given a list of uploaders, pretty-print them all 
    Each line is prefixed with prefix.
    If expand_teams is set, recurse, adding more spaces to prefix on each 
    recursion. 
    ""
    for uploader in sorted(uploaders, key=lambda p: p.display_name):
        print ("%s* %s (%s)%s" % (prefix, uploader.display_name, uploader.name,
            [team] if uploader.is_team else "))
    if expand_teams and uploader.is_team:
        print_uploaders(uploader.participants, True, prefix=prefix + ")

if __name__ == '__main__':
    main()
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    doc/pull-lp-source.1
doc/ubuntu-build
    doc/ubuntu-build.1
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    mk-sbuild
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# application/cdmi-container
# application/cdmi-domain
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# application/cdmi-container
# application/cdmi-domain
```
application/mp4mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/msc-ivr+xml
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application/msword
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iso
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dist
distz
pkg
bpk
dump
elc
deploy
application/oda
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onetoc2
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# application/parityfec
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application/sdp
# application/set-payment
application/set-payment-initiation
# application/set-registration
application/set-registration-initiation
# application/sgml
# application/sgml-open-catalog
application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml
# application/soap+xml
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
application/srgs
application/srgs+xml
application/sru+xml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml
tei
tei
tei
application/thraud+xml
tfi
tfi
tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-datatsd
# application/tve-trigger
# application/ulpfec
# application/vemmi
# application/vividence.scriptfile
# application/vnd.3gpp.bsf+xml
application/vnd.3gpp.pic-bw-largeplb
application/vnd.3gpp.pic-bw-smallpsb
application/vnd.3gpp.pic-bw-varpvb
# application/vnd.3gpp.sms
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap
tcap
tcap
tcap
application/vnd.3m.post-it-notes
application/vnd.accpac.simply.aso
application/vnd.accpac.simply.imp
application/vnd.acucobolacu
application/vnd.acucorpatc acutc
application/vnd.adobe.air-application-installer-package+zipair
application/vnd.adobe.fxp
fxp
fxpl
# application/vnd.adobe.partial-upload
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application/vnd.adobe.xfdf
# application/vnd.aether.imp
# application/vnd.ah-barcode
application/vnd.ahead.spaceahead
application/vnd.airzip.filesecure.azfazf
application/vnd.airzip.filesecure.azsazs
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application/vnd.amiga.amiami
# application/vnd.amundsen.maze+xml
application/vnd.android.package-archive
application/vnd.anser-web-certificate-issue-initiation
application/vnd.anser-web-funds-transfer-initiation
application/vnd.antix.game-component
application/vnd.denovo.fcselayout-link
# application/vnd.dir-bi.plate-dl-nosuffix
application/vnd.dna
application/vnd.dolby.mlpmlp
# application/vnd.dolby.mlpmlp
# application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
application/vnd.dpgaphdp
application/vnd.dreamfactory
application/vnd.dvb.aitait
# application/vnd.dvb.dvbj
# application/vnd.dvb.esgcontainer
# application/vnd.dvb.ipdcdftnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcreaming
# application/vnd.dvb.ipv.affec-base
# application/vnd.dvb.ipv.affec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
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# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
# application/vnd.dvb.pfr
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# application/vnd.dsx
application/vnd.dynageogeo
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chartmag
# application/vnd.ecowin.filerquest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enlivenxml
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application/vnd.epson.saltstlt
application/vnd.epson.ssffssf
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# application/vnd.etsi.aoc+xml
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# application/vnd.nokia.pcd+xml
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# application/vnd.ntt-local.file-transfer
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# application/vnd.ntt-local.sip-ta_tcp_stream
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# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
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# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugarxo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.ilm+xml
# application/vnd.oma.bcast.ltkm
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application/x-font-linux-psf
application/x-font-otf
application/x-font-pcf
application/x-font-snf
# application/x-font-speedo
# application/x-font-sunos-news
application/x-font-ttf
application/x-font-type1
application/x-font-woff
# application/x-font-vfont
application/x-futuresplash
application/x-gnumeric
application/x-gtar
# application/x-gzip
application/x-hdf
application/x-java-jnlp-file
application/x-latex
application/x-mobipocket-ebook
generic
application/x-ms-application
application/x-ms-application
application/x-ms-access
application/x-ms-binder
application/x-ms-cardfile
application/x-msclip
application/x-msdownload
dx com bat msi
application/x-msmediaview
application/x-msmetafile
application/x-msmoney
application/x-mspublisher
application/x-ms schedules
d application/x-msterminal
application/x-mswriter
application/x-netcdf
application/x-nsis
application/x-pkcs
application/x-pkcs7-certificates
application/x-pkcs7-certreqresp
application/x-rar-compressed
application/x-sh
application/x-shar
application/x-shockwaveflash
application/x-silverlight
application/x-stuffit
application/x-stuffitx
application/x-sv4cpio
application/x-sv4crc

---

Open Source Used In Tetration 3.5.1 38242

---
# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
# audio/dvi4
# audio/eac3
# audio/evrc
# audio/evrc-qcp
# audio/evrc0
# audio/evrc1
# audio/evrcb
# audio/evrcb0
# audio/evrcb1
# audio/evrcwb
# audio/evrcwb0
# audio/evrcwb1
# audio/example
# audio/g719
# audio/g722
# audio/g7221
# audio/g723
# audio/g726-16
# audio/g726-24
# audio/g726-32
# audio/g726-40
# audio/g728
# audio/g729
# audio/g7291
# audio/g729d
# audio/g729e
# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
audio/midi					mid midi kar rmi
# audio/mobile-xmxf
audio/mp4mp4a
# audio/mp4a-latm
# audio/mpa
# audio/mpa-robust
audio/mpegmpga mp2 mp2a mp3 m2a m3a
# audio/imeg4-generic
audio/oggoga ogg spx
# audio/parityfec
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# audio/sp-midi
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# audio/t140c
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# audio/uemclip
# audio/ulpfec
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# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audiouva uvva
audio/vnd.digital-windseol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.ml	
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
video/oggogv
# video/parityfec
# video/pointer
video/quicktimeqt mov
# video/raw
# video/rtp-enc-aescm128
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vcl
# video/vnd.cctv
video/vnd.dece.hdvh uvvh
video/vnd.dece.mobileuvum uvvm
# video/vnd.dece.mp4
video/vnd.dece.pdvup uvvp
video/vnd.dece.sduvs uvvs
video/vnd.dece.videouvv uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.fvtfvt
# video/vnd.hns.video
# video/vnd.iptvforum.1dparityfec-1010
# video/vnd.iptvforum.1dparityfec-2005
# video/vnd.iptvforum.2dparityfec-1010
# video/vnd.iptvforum.2dparityfec-2005
# video/vnd.iptvforum.ttsavc
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurlmuxu m4u
video/vnd.ms-playready.media.pyvpyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.sealed.mpeg1
# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4uvu uvvu
video/vnd.vivoviv
video/webmwebm
video/x-f4vf4v
video/x-flifli
video/x-flvf1v
video/x-m4vm4v
video/x-ms-asfasf asx
video/x-ms-wmwm

Open Source Used In Tetration 3.5.1 38251
use LWP::MediaTypes qw(guess_media_type);
$Type = guess_media_type("/tmp/foo.gif");

This function tries to guess media type and encoding for a file or a URI. It returns the content type, which is a string like C\"text/html\". In array context it also returns any content encodings applied (in the order used to encode the file). You can pass a URI object reference, instead of the file name.

If the type can not be deduced from looking at the file name, then guess_media_type() will let the C\<-T> Perl operator take a look. If this works (and C\<-T> returns a TRUE value) then we return
I<text/plain> as the type, otherwise we return
I<application/octet-stream> as the type.

The optional second argument should be a reference to a HTTP::Headers
object or any object that implements the $obj->header method in a
similar way. When it is present the values of the
'Content-Type' and 'Content-Encoding' will be set for this header.

=item media_suffix( $type, ... )

This function will return all suffixes that can be used to denote the
specified media type(s). Wildcard types can be used. In a scalar
context it will return the first suffix found. Examples:

    @suffixes = media_suffix('image/*', 'audio/basic');
    $suffix = media_suffix('text/html');

=back

The following functions are only exported by explicit request:

=over 4

=item add_type( $type, @exts )

Associate a list of file extensions with the given media type.
Example:

    add_type("x-world/x-vrml" => qw(wrl vrml));

=item add_encoding( $type, @ext )

Associate a list of file extensions with an encoding type.
Example:

    add_encoding("x-gzip" => "gz");

=item read_media_types( @files )

Parse media types files and add the type mappings found there.
Example:

    read_media_types("conf/mime.types");

=back

=head1 COPYRIGHT
NAME
LWP::MediaTypes - guess media type for a file or a URL

SYNOPSIS
use LWP::MediaTypes qw(guess_media_type);
$type = guess_media_type("/tmp/foo.gif");

DESCRIPTION
This module provides functions for handling media (also known as MIME) types and encodings. The mapping from file extensions to media types is defined by the media.types file. If the ~/.media.types file exists it is used instead. For backwards compatibility we will also look for ~/.mime.types.

The following functions are exported by default:

guess_media_type( $filename )
guess_media_type( $uri )
guess_media_type( $filename_or_uri, $header_to_modify )
    This function tries to guess media type and encoding for a file or a URL. It returns the content type, which is a string like "text/html". In array context it also returns any content encodings applied (in the order used to encode the file). You can pass a URI object reference, instead of the file name.

    If the type can not be deduced from looking at the file name, then guess_media_type() will let the `-T` Perl operator take a look. If this works (and `-T` returns a TRUE value) then we return *text/plain* as the type, otherwise we return *application/octet-stream* as the type.

    The optional second argument should be a reference to a HTTP::Headers object or any object that implements the $obj->header method in a similar way. When it is present the values of the 'Content-Type' and 'Content-Encoding' will be set for this header.

media_suffix( $type, ... )
    This function will return all suffixes that can be used to denote
the specified media type(s). Wildcard types can be used. In a scalar context it will return the first suffix found. Examples:

```
@suffixes = media_suffix('image/*', 'audio/basic');
$suffix = media_suffix('text/html');
```

The following functions are only exported by explicit request:

```
add_type( $type, @exts )
    Associate a list of file extensions with the given media type.
    Example:

        add_type("x-world/x-vrml" => qw(wrl vrml));
```

```
add_encoding( $type, @ext )
    Associate a list of file extensions with an encoding type. Example:

        add_encoding("x-gzip" => "gz");
```

```
read_media_types( @files )
    Parse media types files and add the type mappings found there.
    Example:

        read_media_types("conf/mime.types");
```

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Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/README
No license file was found, but licenses were detected in source scan.

```
license:            perl
```

Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/META.yml
1.3451.1 Available under license :

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1.3458 libtext-charwidth-perl 0.04-7build3

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contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/ro/SpanishLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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The Stempel analyzer (contrib/analyzers) includes BSD-licensed software developed
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file (certdata.txt). This file can be found in the mozilla source tree:
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Jean-loup Gailly        Mark Adler
jloup@gzip.org  madler@alumni.caltech.edu
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c End:

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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1.3484 bash 4.2.46 34.el7

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
  classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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Version 3, 29 June 2007

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
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  jar/io/netty/resolver/AddressResolver.java
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  jar/io/netty/resolver/DefaultAddressResolver.java
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* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4-1-32-final-sources-2.jar/io/netty/resolver/InetNameResolver.java
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/*/ 

LZ4 - Fast LZ compression algorithm
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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BIRT Runtime

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----------
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BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT
chart. It also includes a BIRT Sample Web Viewer.
BIRT Engine is a report engine which generates report from defined report and
related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce
24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from
http://www.eclipse.org/birt/faq/

The Website for BIRT.
---------------------
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Running the BIRT Engine in Console
----------------------------------
In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
genReport xxx.rptdesign

xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by ./xxx.rptdesign

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* /opt/cola/permits/1138400315_1614282063.14/0/org-eclipse-core-resources-3-9-1-v20140825-1431-sources-3-jar/runtime_readme.txt

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# Contributions to the urllib3 project

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
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* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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1.3512 jetty-io 9.3.24.v20180605
1.3513 cryptsetup-luks 1.2.0-7.el6

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1.3516 geo-ip 1.5.0 13.el7

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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*
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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  jar/io/netty/buffer/ByteBufUtil.java
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  jar/io/netty/buffer/PoolChunkList.java
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  jar/io/netty/buffer/package-info.java
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  jar/io/netty/buffer/PooledByteBufAllocator.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
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  jar/io/netty/buffer/ByteBufInputStream.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
  jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
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  jar/io/netty/buffer/PooledDirectByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
  jar/io/netty/buffer/PoolSubpage.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
  jar/io/netty/buffer/DuplicatedByteBuf.java
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  jar/io/netty/buffer/ByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
  jar/io/netty/buffer/ByteBufAllocator.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
  jar/io/netty/buffer/ByteBufOutputStream.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
  jar/io/netty/buffer/SlicedByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
  jar/io/netty/buffer/UnpooledDirectByteBuf.java
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* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/ByteBufHolder.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java

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* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
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jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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jar/io/netty/buffer/UnsafeByteBufUtil.java
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jar/io/netty/buffer/PoolArenaMetric.java
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jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
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jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
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* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/PooledSlicedByteBuf.java
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* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-jar/io/netty/buffer/PooledDuplicatedByteBuf.java

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DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
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DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1125758851_1613553092_69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift

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Pod::Spec.new do |

  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = " A beautiful button copy from Path® "

  s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC

  s.homepage = "https://github.com/Tangdixi/DCPathButton"

  s.license = {
    :type => 'MIT',
    :text => 'The DCPathButton use the MIT license'
  }

  s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

  s.platform = :ios, '7.0'

  s.source = {
    :git => "https://github.com/Tangdixi/DCPathButton.git",
    :tag => "2.1.1"
  }

  s.source_files = 'DCPathButton/Classes/*.h,m'

  s.resources = ['DCPathButton/Sounds/**']

  s.frameworks = 'QuartzCore','AudioToolbox'

  s.requires_arc = true

end
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DCPathButton-39be410/Example/Pods/DCPathButton/README.md
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Example/BarButtonItemViewController.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

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Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Example/BarButtonItemViewController.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
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Note that it is possible for a library to be covered by the ordinary
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(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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"Source code" for a work means the preferred form of the work for
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major
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Appendix: How to Apply These Terms to Your New Libraries

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for many bugfixes

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for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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for the lgdt330x frontend driver, and various bugfixes

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and 
for merging the nxt2002 and nxt2004 modules into a 
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a 
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1.3550 libxi 1.7.2 2.2.el6

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1.3551 jackson-dataformat-yaml 2.8.11

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1.3552 cors 1.7.0

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1.3554 shared-mime-info 1.2-0ubuntu3

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1.3562 lazr-uri 1.0.3-1build1

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1.3563 joda-time 2.2
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1.3564 pcre 7.8 6.el6

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THE BASIC LIBRARY FUNCTIONS

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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This package was debianized by Jeff Bailey <jbailey@ubuntu.com> on Thu, 27 Jan 2005 15:23:52 -0500.

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The current ubuntu release can be found at: http://archive.ubuntu.com/ubuntu/pool/main/i/initramfs-tools/

The Debian tree is maintained with "git" at:
git://git.debian.org/git/kernel/initramfs-tools.git
http://git.debian.org/?p=kernel/initramfs-tools.git;a=shortlog

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1.3578 libbsd 0.6.0 2ubuntu1

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Here the stream cipher has been modified always to include the time
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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.3590 e2fsprogs 1.42.9-3ubuntu1.3
1.3590.1 Available under license:

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003
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Theodore Ts'o
23-June-2007

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Also add information on how to contact you by electronic and paper mail.

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necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image::$(BSD_LIB)

$(BSD_LIB): $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \@-$(LDCONFIG) \install-shlibs-strip: install

install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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Version 2, June 1991

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/[lz4.h,lz4.c,lz4hc.h,lz4hc.c]
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

======

For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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1.3602 glibc 2.17-157.el7

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[This is the first released version of the library GPL. It is
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must
be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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1.3610 ingest-common 6.7.0

1.3611 patch 2.7.1-4ubuntu2.4

1.3611.1 Available under license:
This is Debian's prepackaged version of patch, Larry Wall's program that
allows you to apply diffs to a file automagically.

The current maintainer for this package is Laszlo Boszormenyi (GCS)
<gcs@debian.org>.

Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>,
Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>,
Michael Fedrowitz <michaelf@debian.org> and Christoph Berg <myon@debian.org>.

The upstream source is available at 'ftp://ftp.gnu.org/gnu/patch/', resp.
'ftp://alpha.gnu.org/gnu/diffutils/'.

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Version 3, 29 June 2007

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That's all there is to it!
package org.jets3t.service.acl;

/**
 * Represents an access permission, as granted to grantees in an AccessControlList.
 * Only a limited set of permissions are available, each one is available as a public static
 * variable in this class of the form PERMISSION_XYZ.
 *
 * @author James Murty
 */

public final class Permission {
    public static final Permission PERMISSION_FULL_CONTROL = new Permission("FULL_CONTROL");
    public static final Permission PERMISSION_READ = new Permission("READ");
    public static final Permission PERMISSION_WRITE = new Permission("WRITE");
    public static final Permission PERMISSION_READ_ACP = new Permission("READ_ACP");
    public static final Permission PERMISSION_WRITE_ACP = new Permission("WRITE_ACP");

    private String permissionString = "";

    private Permission(String permissionString) {
        this.permissionString = permissionString;
    }

    /**
     * @param str
     * a string representation of a permission, eg <tt>FULL_CONTROL</tt>
     * @return
     * the Permission object represented by the given permission string
     */
    public static Permission parsePermission(String str) {
        Permission permission = null;
        // Additional code for parsing permissionString...
if (str == null) {
    // Do nothing
} else if (str.equals(PERMISSION_FULL_CONTROL.toString())) {
    permission = PERMISSION_FULL_CONTROL;
} else if (str.equals(PERMISSION_READ.toString())) {
    permission = PERMISSION_READ;
} else if (str.equals(PERMISSION_WRITE.toString())) {
    permission = PERMISSION_WRITE;
} else if (str.equals(PERMISSION_READ_ACP.toString())) {
    permission = PERMISSION_READ_ACP;
} else if (str.equals(PERMISSION_WRITE_ACP.toString())) {
    permission = PERMISSION_WRITE_ACP;
} else {
    permission = null;
}
return permission;

/**
 * @return
 * the string representation of a permission object, eg <tt>FULL_CONTROL</tt>
 */
public String toString() {
    return permissionString;
}

public int hashCode() {
    return permissionString.hashCode();
}

public boolean equals(Object obj) {
    return (obj instanceof Permission) && toString().equals(obj.toString());
}

}
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 *
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 *
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1.3618 binutils 2.27 43.base.el7

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@heading END OF TERMS AND CONDITIONS
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@page
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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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IMPORT: ../../fossene/db/schema/thing.yml
fields:
    site: string
    author: root
1.3621 netty-reactive-streams 2.0.0

1.3622 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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# vim600: encoding=UTF-8

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1.3630 perl-constant 1.27-2.el7

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---

abstract: 'Perl pragma to declare constants'
author:
- 'Sébastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'_license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: constant
provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27

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constant - Perl pragma to declare constants

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "\n" if DEBUG;

use constant {
    SEC => 0,
    MIN => 1,
    HOUR => 2,
    MDAY => 3,
    MON => 4,
    YEAR => 5,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[(localtime)[WDAY]], "\n";

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C;if (CONSTANT)> block will be optimized away if the constant is false.

As with all C<use> directives, defining a constant happens at
compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if ($foo) {
  use constant ... |}>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

    print "Pi equals PI..\n";      # WRONG: does not expand "PI"
    print "Pi equals \".PI\"..\n";   # right

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

    use constant ARRAY => [1,2,3,4];
    print ARRAY->[1];
    ARRAY->[1] = "be changed";
    print ARRAY->[1];

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in C<Some::Package::CONSTANT>. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C<<$obj>> is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a
constant is evaluated in list context. This may produce surprises:

```
use constant TIMESTAMP => localtime;  # WRONG!
use constant TIMESTAMP => scalar localtime;  # right
```

The first line above defines `<TIMESTAMP>` as a 9-element list, as returned by `<localtime()>` in list context. To set it to the string returned by `<localtime()>` in scalar context, an explicit `<scalar>` keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

```
my @workdays = WEEKDAYS[1 .. 5];  # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];  # right
```

=head2 Defining multiple constants at once

Instead of writing multiple `<use constant>` statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

```
use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",  # Error!
};
```

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until after the `<use>` statement is finished.

```
use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK,  # Error!
};
```

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers
aren’t totally portable, alas.)

    use constant E2BIG => ($! = 7);
    print   E2BIG, "\n";    # something like "Arg list too long"
    print 0+E2BIG, "\n";    # "7"

You can’t produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/Constant Functions> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

    sub declared ($) {  
        use constant 1.01;  # don’t omit this!
        my $name = shift;
        $name =~ s/^::/main::/;
        my $pkg = caller;
        my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
        %constant::declared{$full_name};
    }

=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.

Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.
You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can’t say C<$hash{CONSTANT}> because C<CONSTANT> will be interpreted as a string. Use C<$hash{CONSTANT()}> or C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from kicking in. Similarly, since the C<< => >> operator quotes a bareword immediately to its left, you have to say C<< CONSTANT() => 'value' >> (or simply use a comma in place of the big arrow) instead of C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen, E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters. The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni, E<lt>F<sebastien@aperghis.net>E<gt>.

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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

    perl Makefile.PL
    make
    make test
    make install

Alternatively, to install with Module::Build, you can use the following commands:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

    perldoc constant

You can also look for information at:
Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

CPAN Ratings:
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This is the Debian package of expat, the C library for parsing XML.

The source package was downloaded from <URL:http://expat.sourceforge.net>.

The original packager is Adam Di Carlo <aph@debian.org>. The current maintainer is Ardo van Rangelrooij <ardo@debian.org>.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined
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@subheading Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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- If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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    src/udev/udevadm-hwdb.c
    src/udev/udev-builtin.c
    src/udev/udev-builtin-net_id.c
    src/udev/udev-builtin-hwdb.c
    src/udev/udev-builtin-btrfs.c
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Files: src/udev/scsi_id/scsi.h
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Files: src/systemd/sd-daemon.h
    src/systemd/sd-readahead.h
    src/libsystemd-daemon/sd-daemon.c
    src/readahead/sd-readahead.c
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1.3653 grizzly-framework 2.3.16

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1.3654 python-iniparse 0.3.1-2.1.el6

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.3655 smartmontools 6.5 1.el7

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1.3656 ncurses 5.7 3.20090208.el6

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#
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#
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Julian Seward, jsward@bztp.org
bztp2/libbztp2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>," 
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
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<one line to give the program's name and a brief idea of what it does.>
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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
```

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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = ";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.\b\d{4,}\b/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.3658 libtext-soundex-perl 3.4-1+b2

1.3658.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Text-Soundex
Source: https://metacpan.org/release/Text-Soundex/
Upstream-Contact: Ricardo SIGNES <rjbs@cpan.org>

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1.3659 javassist 3.18.1-GA

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 */

Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtField.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/ClassPath.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/NewArray.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformReadField.java

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Open Source Used In Tetration 3.5.1 40113
jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Pair.java
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Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/LongMemberValue.java
1.3660 apr 1.5.0-1

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strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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End
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Thu, 7 Mar 2002 01:05:25 +0900.

It was downloaded from <http://ftp.gnome.org/pub/GNOME/sources/glib/>.

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to 
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compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data 
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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### 1.3674 node-combined-stream 0.0.4-1

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### 1.3675 joda-time 2.8.1

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Version 3, 29 June 2007

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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XML Commons External Components XML APIs 1.3.04
--------------------------------------------------------------------------------

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  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>
* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>
* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

1.3687 j2objc-annotations 1.1

1.3688 gir1.2-gdkpixbuf-2.0 2.10.6
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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c3ff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
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  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/ParameterNode.java
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  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/MethodInsnNode.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Label.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/ByteVector.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Opcodes.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Context.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Handle.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/InstructionAdapter.java
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  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/JarOptimizer.java
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 */
/**
 * Constructs a new [ @link ClassNode ]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ @link #ClassNode(int) ]
 * version.
 *
 * @throws IllegalStateException
 * @throws IllegalArgumentException
 * @throws NumberFormatException
 *
 * If a subclass calls this constructor.
 */
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/**
* Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the
* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
* version.
*
* @param typeRef
* a reference to the annotated type. See {@link TypeReference}.
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
/**
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

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/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, int, String, String, MethodVisitor)] version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @param mv
the method visitor to which this adapter delegates calls. May be <tt>null</tt>.

* @throws IllegalStateException

If a subclass calls this constructor.
*/

/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i>
 * constructor</i>. Instead, they must use the
 * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])
 * version.
 *
 * @param mv
 *
 * the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see { @link Opcodes}). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type}).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* { @link Type#InternalName() getInternalName}). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-frames.properties
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  jar/org/objectweb/asm/optimizer/shrink.properties
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  jar/org/objectweb/asm/optimizer/shrink-writer.properties
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 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 *    the method visitor to which this adapter delegates calls.
 * @param access
 *    the method's access flags (see [@link Opcodes]).
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 *    If a subclass calls this constructor.
 */

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1.3709 selinux 2.2.2-1ubuntu0.1

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This package was debianized by Colin Walters <walters@debian.org> on
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1.3710 rpm 4.11.3-45.el7

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1.3715 ncurses 5.9+20140118-1ubuntu1

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-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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1.3716 binutils 2.27-44.base.el7

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++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]  
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.
Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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John R. Hauser
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* @(#)mman.h     8.2 (Berkeley) 1/9/95
* /

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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*/
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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/*      $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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* @(#)errno.h 8.5 (Berkeley) 1/21/94
*

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDeadLK 11 /* Resource deadlock avoided */

/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_BUSY 16 /* Device busy */
#define TARGET_EXPR 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOCT 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROF 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET.ENOBUFFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTENODES 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73  /* RPC version wrong */
#define TARGET_EPROGUNAVAIL  74  /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75  /* Program version wrong */
#define TARGET_EPROCUNAVAIL   76  /* Bad procedure for program */
#define TARGET_ENOLCK        77  /* No locks available */
#define TARGET_ENOSYS         78  /* Function not implemented */
#define TARGET_EFTYPE         79  /* Inappropriate file type or format */
#define TARGET_EAUTH          80  /* Authentication error */
#define TARGET_ENEEDEAUTH     81  /* Need authenticator */
#define TARGET_EIPSEC         82  /* IPsec processing failure */
#define TARGET_ENOATTR        83  /* Attribute not found */
#define TARGET_EILSEQ         84  /* Illegal byte sequence */
#define TARGET_ENOMEDIUM      85  /* No medium found */
#define TARGET_EMEDIUMTYPE    86  /* Wrong Medium Type */
#define TARGET_EOVERFLOW      87  /* Conversion overflow */
#define TARGET_ECANCELED      88  /* Operation canceled */
#define TARGET_EIDRM          89  /* Identifier removed */
#define TARGET_ENOMSG         90  /* No message of desired type */
#define TARGET_ELAST          90  /* Must be equal largest errno */

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
null
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TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
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TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
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TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
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TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
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TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,%#x)", NULL, NULL },
TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d,%d,%#x)", NULL, NULL },
TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x,%#x,%d)", NULL, NULL },
TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d,"%s")", NULL, NULL },
TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d,%#x)", NULL, NULL },
TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
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ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
 export TOP
endif
 include $(TOP)/make.rules

SUBDIRS=  
ifeq ($(SNK_BIOSEMU_APPS), 1)
 SUBDIRS += x86emu
endif

CLEANSUBDIRS = $(SUBDIRS)

all :
 for subdir in $(SUBDIRS) ; do $(MAKE) -C $$subdir || exit 1 ; done

# Common targets for all subdirectories:
 clean distclean depend:
 for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$subdir $@ ; done

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ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
 export TOP

ifdef
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I./include -I./include/x86emu \
   -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
   -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
   -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
  $(CC) $(ASFLAGS) -c -o $@ $^  

%.o: %.c
  $(CC) $(CFLAGS) -c -o $@ $^  

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
  $(AR) -rc $@ $^  
  $(RANLIB) $@

clean:
  $(RM) *.o *.i *.s libx86emu.a

distclean: clean
  /* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

  /*
   * System call numbers.
   *
   * created from;    OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
   */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_prof 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgid 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_systarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_bmapv 185
#define TARGET_OPENBSD_NR_lfs_markv 186
#define TARGET_OPENBSD_NR_lfs_markv 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR___syscall 201
#define TARGET_OPENBSD_NR___syscall 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 205
#define TARGET_OPENBSD_NR_getpgid 206
#define TARGET_OPENBSD_NR_xfsioctl 207
#define TARGET_OPENBSD_NR_semget 208
#define TARGET_OPENBSD_NR_semget 209
#define TARGET_OPENBSD_NR_msgget 221
#define TARGET_OPENBSD_NR_msgget 222
#define TARGET_OPENBSD_NR_msgrcv 223
#define TARGET_OPENBSD_NR_msgrcv 224
#define TARGET_OPENBSD_NR_shmat 225
#define TARGET_OPENBSD_NR_shmdt 226
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_gettime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR__shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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* 
* */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
declare TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python
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</tr>
<tr>
<td>TARGET_NETBSD_NR_mq_unlink</td>
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<tr>
<td>TARGET_NETBSD_NR_mq_getattr</td>
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 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7

/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink    10

/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18

/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount   22
#define TARGET_FREEBSD_NR_setuid    23
#define TARGET_FREEBSD_NR_getuid    24
#define TARGET_FREEBSD_NR_geteuid   25
#define TARGET_FREEBSD_NR_ptrace    26
#define TARGET_FREEBSD_NR_recvmsg   27
#define TARGET_FREEBSD_NR_sendmsg   28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_accept  30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_fchflags 34
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
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#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_getpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
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#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
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#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138

/* 139 is obsolete 4.2 sigreturn */
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#define TARGET_FREEBSD_NR_adjtime /* COMPAT */
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#define TARGET_FREEBSD_NR_freebsd4_fstatfs 146
#define TARGET_FREEBSD_NR_freebsd4_getfh 147
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 148
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 149
#define TARGET_FREEBSD_NR_freebsd6_pread 150
#define TARGET_FREEBSD_NR_freebsd6_pwrite 151
#define TARGET_FREEBSD_NR_setfib 152
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#define TARGET_FREEBSD_NR_setegid 155
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#define TARGET_FREEBSD_NR_stat 157
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#define TARGET_FREEBSD_NR_nlstat 280
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#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
    /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
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#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
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#define TARGET_FREEBSD_NR_munlockall 325
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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The initial work to provide the UEFI implementation of Lua was done at Emulex Corporation.

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The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk

Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c	7 Sep 2007 10:01:21 -0000	1.1
+++ debug.c	15 Jan 2008 13:49:25 -0000	1.3
@@ -52,7 +52,11 @@
   void X86EMU_trace_regs (void)
   {
       if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+       if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+       x86emu_dump_xregs();
+     } else {
+       x86emu_dump_regs();
+     }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
       printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
       sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+   printk("%-20s ",buf1);
   }

static void print_decoded_instruction (void)
Index: ops2.c
--- ops2.c 7 Sep 2007 10:01:21 -0000
+++ ops2.c 20 Mar 2008 15:48:34 -0000
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-    if (cond)
-    M.x86.R_IP = (u16)target;
+    if (cond) {
+        M.x86.R_IP = (u16)target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+        DECODE_CLEAR_SEGOVR();
+        END_OF_INSTR();
+    }
+    **************************************************************************/
+    REMARKS:
+    Handles opcode 0x0f,0xC8-0xCF
+    ****************************************************************************/
+    s32 x86emu_bswap(s32 reg)
+    {...
+        // perform the byte swap
+        s32 temp = reg;
+        reg = (temp & 0xFF000000) >> 24;
+        reg |= (temp & 0xFF0000) >> 8;
+        reg |= (temp & 0xFF00) << 8;
+        reg |= (temp & 0xFF) << 24;
+        return reg;
+    }
+    +
+    +void x86emuOp2_bswap(u8 op2)
+    {...
+        /* byte swap 32 bit register */
+        START_OF_INSTR();
+        DECODE_PRINTF("BSWAP\n");
+        switch (op2) {
+            case 0xc8:
+                DECODE_PRINTF("EAX\n");
+                M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+                break;
+            case 0xc9:
+                DECODE_PRINTF("ECX\n");
+                M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+     break;
+   case 0xca:
+     DECODE_PRINTF("EDX\n");
+     M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+     break;
+   case 0xcb:
+     DECODE_PRINTF("EBX\n");
+     M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+     break;
+   case 0xcc:
+     DECODE_PRINTF("ESP\n");
+     M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+     break;
+   case 0xcd:
+     DECODE_PRINTF("EBP\n");
+     M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+     break;
+   case 0xce:
+     DECODE_PRINTF("ESI\n");
+     M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+     break;
+   case 0xcf:
+     DECODE_PRINTF("EDI\n");
+     M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+     break;
+   }
+  TRACE_AND_STEP();
+  DECODE_CLEAR_SEGOVR();
+  END_OF_INSTR();
+
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_illegal_op, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* x86emuOp2_bswap, */
/* 0xce */ x86emuOp2_bswap,  
/* 0xcf */ x86emuOp2_bswap,  
/* 0xd0 */ x86emuOp2_illegal_op,  
/* 0xd1 */ x86emuOp2_illegal_op,  
Index: ops.c  
===================================================================  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v  
retrieving revision 1.1  
diff -u -u -r1.1 ops.c  
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1  
+++ ops.c	20 Mar 2008 16:52:00 -0000  
@@ -1061,7 +1061,11 @@  
imm = (s8)fetch_byte_imm();  
DECODE_PRINTF2("PUSH\t%d\n", imm);  
TRACE_AND_STEP();  
- push_word(imm);  
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {  
+ push_long(imm);  
+ } else {  
+ push_word(imm);  
+ }  
DECODE_CLEAR_SEGOVR();  
END_OF_INSTR();  
}  
@@ -1256,8 +1260,10 @@  
target = (u16)(M.x86.R_IP + (s16)offset);  
DECODE_PRINTF2("%x\n", target);  
TRACE_AND_STEP();  
- if (cond)  
+ if (cond) {  
M.x86.R_IP = target;  
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");  
+ }  
DECODE_CLEAR_SEGOVR();  
END_OF_INSTR();  
}  
@@ -2516,9 +2522,11 @@  
count = 1;  
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {  
 /* dont care whether REPE or REPNE */  
- /* move them until CX is ZERO. */  
- count = M.x86.R_CX;  
+ /* move them until (E)CX is ZERO. */  
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;  
M.x86.R_CX = 0;  
+if (M.x86.mode & SYSMODE_32BIT_REP)  
+ M.x86.R_ECX = 0;  
Open Source Used In Tetration 3.5.1 40914
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    M.x86.R SI += inc;
    M.x86.R DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX) != 0) {
            val1 = fetch_data_byte(M.x86.R SI);
            val2 = fetch_data_byte_abs(M.x86.R ES, M.x86.R DI);
            cmp_byte(val1, val2);
            M.x86.R CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                break;
        }
    }
}
M.x86.R_ECX -= 1;

else

M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;

// REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {

+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val1 = fetch_data_long(M.x86.R_SI);
    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word((u16)val1, (u16)val2);
}

- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else

+ M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;

+ if (M.x86.intr & INTR_HALTED)
+     break;
}

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
} else { 

@@ -2644,8 +2663,8 @@ 

TRACE_AND_STEP();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {

+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val1 = fetch_data_long(M.x86.R_SI);
    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word((u16)val1, (u16)val2);
}

- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else

+ M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;

+ if (M.x86.intr & INTR_HALTED)
+     break;
}

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {

@@ -2741,11 +2765,16 @@

TRACE_AND_STEP();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {

+    /* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
    M.x86.R_CX -= 1;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        count = M.x86.R_CX;
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
        }
        M.x86.R_CX = 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
        load_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    while (M.x86.R_CX != 0) {
        /* move them until CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
        }
        M.x86.R_CX = 0;
    }
+     else
+         M.x86.R_CX -= 1;
+         M.x86.R_SI += inc;
+     if (M.x86.intr & INTR_HALT)
+         break;
+ }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALT)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
break;
  +  if (M.x86.intr & INTR_HALTED)
  +    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  -    /* move them until CX is ZERO. */
  -    while (M.x86.R_CX != 0) {
  +    /* move them until (E)CX is ZERO. */
  +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        -          M.x86.R_CX -= 1;
        +          if (M.x86.mode & SYSMODE_32BIT_REP)
        +            M.x86.R_ECX -= 1;
        +          else
        +            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
          break;          /* zero flag set means equal */
  +    if (M.x86.intr & INTR_HALTED)
  +      break;
  +  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
  @@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE */
  -      /* move them until CX is ZERO. */
  -      while (M.x86.R_CX != 0) {
  +      /* move them until (E)CX is ZERO. */
  +      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
          val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_long(M.x86.R_EAX, val);
        }
  @@ -2960,16 +3012,21 @@
          val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_word(M.x86.R_AX, (u16)val);
    }
  -    M.x86.R_CX -= 1;
  +    if (M.x86.mode & SYSMODE_32BIT_REP)
  +      M.x86.R_ECX -= 1;
  +    else
  +      M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
break;
+    if (M.x86.intr & INTR_HALTED)
+    break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    -    while (M.x86.R_CX != 0) {
    +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            /* move them until (E)CX is ZERO. */
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;          /* zero flag set means equal */
            if (M.x86.intr & INTR_HALTED)
                break;
        } else if (M.x86.intr & INTR_HALTED)
        } else {
        @@ -2977,10 +3034,15 @@
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;          /* zero flag set means equal */
            if (M.x86.intr & INTR_HALTED)
            } else {
@@ -3238,9 +3300,9 @@
        RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
        TRACE_AND_STEP();
        M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
        M.x86.R_SP += imm;
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -3254,9 +3316,9 @@
    } else {
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
  DECODE_PRINTF("RETF\t");
  imm = fetch_word_imm();
  DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3488,10 +3550,10 @@
  {START_OF_INSTR();
    DECODE_PRINTF("RETFu");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
} @@ -4020,8 +4082,11 @@
 ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX = -1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX = -1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
 ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+     ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- M.x86.R_CX = 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4333,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:\", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
target = ((u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
    break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32 *res_hi, u32 d, u32 s)
 {
     #ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s32)d * (s64)(s32)s;
     *res_lo = (u32)res;
     *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
 void mul_long(u32 s)
 {
     #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
 }    /* dont care whether REPE or REPNE */
 -    /* in until CX is ZERO. */
 -    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
 M.x86.R_ECX : M.x86.R_CX);
-    while (count--) {
-        single_in(size);
-        M.x86.R_DI += inc;
+    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
+        M.x86.R_ECX = 0;
+    }
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
 }    /* dont care whether REPE or REPNE */
/* out until CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ /* out until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
+ M.x86.R_ECX : M.x86.R_CX);
while (count--) {
  single_out(size);
  M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
  }
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c	7 Sep 2007 10:01:21 -0000	1.1
+++ sys.c	7 Sep 2007 10:03:13 -0000	1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

+#ifdef IN_MODULE
+#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);
-return inb(addr);
+return 0;
}

/*****************************/
@@ -235,7 +230,7 @@
DB(if (DEBUG_IO_TRACE())
printk("inw %#04x \n", addr);)
-return inw(addr);
+return 0;
}

/***********************************************************/
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("inl %#04x
", addr);
-return inl(addr);
+return 0;
}

/***********************************************************/
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("outb %#02x -> %#04x \n", val, addr);
-OUTb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("outw %#04x -> %#04x \n", val, addr);
-OUTw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
 printk("outl %#08x -> %#04x \n", val, addr);
-OUTl(val, addr);
 return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
-M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
==================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALL_REGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()     (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMP_REGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT() 0
# define DEBUG_TRACECALL() 0
# define DEBUG_TRACECALL_REGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMP_REGS() 0
# define DEBUG_SYS() 0
# define DEBUG_MEM_TRACE() 0
# define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                                     
        x86emu_dump_regs();                                     
        if (DEBUG_TRACECALL())                                     
-            printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x); 
-#define RETURN_TRACE(n,u,v)
+            if (DEBUG_TRACEJMPREGS()) 
+                x86emu_dump_regs(); 
+                if (DEBUG_TRACEJMP()) 
+                    x86emu_dump_regs(); 
+                    if (DEBUG_TRACEJMPREGS()) 
+                        x86emu_dump_regs(); 
+                        if (DEBUG_TRACEJMP()) 
Open Source Used In Tetration 3.5.1 40927
+ printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
#define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+#else define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif
#endif DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS | \
 SYSMODE_SEGOVR_SS | \
 SYSMODE_PREFIX_DATA | \
+ SYSMODE_PREFIX_ADDR    | \
+ SYSMODE_32BIT_REP)    
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
/*
 u32                         mode;
 volatile int                intr; /* mask of pending interrupts */
-int                         debug;
+ volatile int               debug;
#endif DEBUG
-int                         check;
+   check;
 u16                         saved_ip;
 u16                         saved_cs;
int enc_pos;

Index: include/x86emu/x86emu.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -000001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -000001.3
@@ -47,6 +47,7 @@
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+  #define printk printf
#endif

void X86EMU_trace_regs(void);

#include <stdio.h>
#define printk printf(BIOS_DEBUG, x)
#endif /* __X86EMU_X86EMU_H */

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 * which accompanies this distribution, and is available at
 * http://www.opensource.org/licenses/bsd-license.php
 * Contributors:
 * IBM Corporation - initial implementation
*/
SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "svn executable not found!"
exit 1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit 1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit 1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
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History
-------

Before (and including) argparse 1.1, the argparse package was licensed under
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After argparse 1.1, all project files from the argparse project were deleted
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   possible line in a file which can contain a comment. For the majority
   of files this is the first line, except for scripts which require the
   '#!PATH_TO_INTERPRETER' in the first line. For those scripts the SPDX
   identifier goes into the second line.

2. Style:

   The SPDX license identifier is added in form of a comment. The comment
   style depends on the file type::

   C source:// SPDX-License-Identifier: <SPDX License Expression>
   C header:// SPDX-License-Identifier: <SPDX License Expression> */
   ASM:// SPDX-License-Identifier: <SPDX License Expression> */
   scripts:# SPDX-License-Identifier: <SPDX License Expression>
   .rst:// SPDX-License-Identifier: <SPDX License Expression>
   .dts[i]:// SPDX-License-Identifier: <SPDX License Expression>

   If a specific tool cannot handle the standard comment style, then the
   appropriate comment mechanism which the tool accepts shall be used. This
is the reason for having the "// */" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option:

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression:

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the linux kernel are:

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses:

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from U-Boot for license expressions in dual licensed files:

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause
```
AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in U-Boot, but the original license terms need to remain in effect:

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is:

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```


---

**Full name** | **SPDX Identifier** | **OSI Approved** | **File name** | **URI**
---|---|---|---|---
GNU General Public License v2.0 only | GPL-2.0 | Y | gpl-2.0.txt | http://www.gnu.org/licenses/gpl-2.0.txt
GNU General Public License v2.0 or later | GPL-2.0+ | Y | gpl-2.0.txt | http://www.gnu.org/licenses/gpl-2.0.txt
GNU Library General Public License v2 or later | LGPL-2.0+ | Y | lgpl-2.0.txt | http://www.gnu.org/licenses/old-licenses/lgpl-2.0.txt
GNU Lesser General Public License v2.1 or later | LGPL-2.1+ | Y | lgpl-2.1.txt | http://www.gnu.org/licenses/old-licenses/lgpl-2.1.txt
eCos license version 2.0 | eCos-2.0 | eCos-2.0.txt | http://www.gnu.org/licenses/ecos-license.html
BSD 2-Clause License BSD-2-Clause | BSD-2-Clause | Y | bsd-2-clause.txt | https://spdx.org/licenses/BSD-2-Clause
BSD 3-clause "New" or "Revised" License BSD-3-Clause | BSD-3-Clause | Y | bsd-3-clause.txt | https://spdx.org/licenses/BSD-3-Clause
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Boot Software) license
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X11 License X11 | X11 | X11x11.txt | https://spdx.org/licenses/X11.html

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The resultant applicable licence(s) for any particular build can be determined by using "make bin/xxxxxx.yyy.licence"; for example:

```
make bin/rtl8139.rom.licence
```

to determine the resultant licence(s) for the build bin/rtl8139.rom

---

**A. HISTORY OF THE SOFTWARE**
Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause.  According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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1.3726 ubuntu-keyring 2012.05.19

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1.3727 python-requests 2.6.0-10.el7

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1.3728 binutils 2.34

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.
Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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@end group
@end example

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the “with@dots{}Texts.” line with this:

@example
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end example

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
1.3740.1 Available under license:

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# distributed under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1138400755_1614281803.46/0/liburi-perl-1-60-orig-1-tar-gz/URI-1.60/URI/sip.pm
No license file was found, but licenses were detected in source scan.

This package contains the URI.pm module with friends. The module implements the URI class. Objects of this class represent Uniform Resource Identifier references as specified in RFC 2396 and updated by RFC 2732.

URI objects can be used to access and manipulate the various components that make up these strings. There are also methods to combine URIs in various ways.

Some tests require an Internet connection to work and are skipped if one is not active.

You need perl-5.8.1 or better to install this package. You should also have the MIME::Base64 module installed. Installation is otherwise as usual:

perl Makefile.PL
make
make test
make install

Questions about how to use this library should be directed to the comp.lang.perl.modules USENET Newsgroup. Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list.

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Found in path(s):
* /opt/cola/permits/1138400755_1614281803.46/0/liburi-perl-1-60-orig-1-tar-gz/URI-1.60/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

URI - Uniform Resource Identifiers (absolute and relative)
SYNOPSIS

$u1 = URI->new("http://www.perl.com");
$u2 = URI->new("foo", "http");
$u3 = $u2->abs($u1);
$u4 = $u3->clone;
$u5 = URI->new("HTTP://WWW.perl.com:80")->canonical;

$str = $u->as_string;
$str = "$u";

$scheme = $u->scheme;
$opaque = $u->opaque;
$path = $u->path;
$frag = $u->fragment;

$u->scheme("ftp");
$u->host("ftp.perl.com");
$u->path("cpan/");

DESCRIPTION

This module implements the C<URI> class. Objects of this class
represent "Uniform Resource Identifier references" as specified in RFC
2396 (and updated by RFC 2732).

A Uniform Resource Identifier is a compact string of characters that
identifies an abstract or physical resource. A Uniform Resource
Identifier can be further classified as either a Uniform Resource Locator
(URL) or a Uniform Resource Name (URN). The distinction between URL
and URN does not matter to the C<URI> class interface. A
"URI-reference" is a URI that may have additional information attached
in the form of a fragment identifier.

An absolute URI reference consists of three parts: a I<scheme>, a
I<scheme-specific part> and a I<fragment> identifier. A subset of URI
references share a common syntax for hierarchical namespaces. For
these, the scheme-specific part is further broken down into
I<authority>, I<path> and I<query> components. These URIs can also
take the form of relative URI references, where the scheme (and
usually also the authority) component is missing, but implied by the
context of the URI reference. The three forms of URI reference
syntax are summarized as follows:

<scheme>:<scheme-specific-part>#<fragment>
<scheme>://<authority><path>?<query>#<fragment>
<path>?<query>#<fragment>
The components into which a URI reference can be divided depend on the `scheme`. The `URI` class provides methods to get and set the individual components. The methods available for a specific `URI` object depend on the scheme.

=head1 CONSTRUCTORS

The following methods construct new `URI` objects:

=over 4

=item $uri = URI->new( $str )

=item $uri = URI->new( $str, $scheme )

_constructs a new URI object. The string representation of a URI is given as argument, together with an optional scheme specification. Common URI wrappers like `"` and `<`, as well as leading and trailing white space, are automatically removed from the $str argument before it is processed further.

The constructor determines the scheme, maps this to an appropriate URI subclass, constructs a new object of that class and returns it.

The $scheme argument is only used when $str is a relative URI. It can be either a simple string that denotes the scheme, a string containing an absolute URI reference, or an absolute `URI` object. If no $scheme is specified for a relative URI $str, then $str is simply treated as a generic URI (no scheme-specific methods available).

The set of characters available for building URI references is restricted (see L<URI::Escape>). Characters outside this set are automatically escaped by the URI constructor.

=item $uri = URI->new_abs( $str, $base_uri )

_constructs a new absolute URI object. The $str argument can denote a relative or absolute URI. If relative, then it is absolutized using $base_uri as base. The $base_uri must be an absolute URI.

=item $uri = URI::file->new( $filename )

=item $uri = URI::file->new( $filename, $os )

_constructs a new `file` URI from a file name. See L<URI::file>. 

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Constrains a new absolute I<file> URI from a file name. See L<URI::file>.

Returns the current working directory as a I<file> URI. See L<URI::file>.

Returns a copy of the $uri.

=over 4

=item $uri->scheme

Sets and returns the scheme part of the $uri. If the $uri is relative, then $uri->scheme returns C<undef>. If called with an argument, it updates the scheme of $uri, possibly changing the class of $uri, and returns the old scheme value. The method croaks
if the new scheme name is illegal; a scheme name must begin with a letter and must consist of only US-ASCII letters, numbers, and a few special marks: ",", "+", ",-". This restriction effectively means that the scheme must be passed unescaped. Passing an undefined argument to the scheme method makes the URI relative (if possible).

Letter case does not matter for scheme names. The string returned by $uri->scheme is always lowercase. If you want the scheme just as it was written in the URI in its original case, you can use the $uri->_scheme method instead.

=item $uri->opaque

=item $uri->opaque( $new_opaque )

Sets and returns the scheme-specific part of the $uri (everything between the scheme and the fragment) as an escaped string.

=item $uri->path

=item $uri->path( $new_path )

Sets and returns the same value as $uri->opaque unless the URI supports the generic syntax for hierarchical namespaces. In that case the generic method is overridden to set and return the part of the URI between the I<host name> and the I<fragment>.

=item $uri->fragment

=item $uri->fragment( $new_frag )

Returns the fragment identifier of a URI reference as an escaped string.

=item $uri->as_string

Returns a URI object to a plain ASCII string. URI objects are also converted to plain strings automatically by overloading. This means that Suri objects can be used as plain strings in most Perl constructs.

=item $uri->as_iri

Returns a Unicode string representing the URI. Escaped UTF-8 sequences representing non-ASCII characters are turned into their corresponding Unicode code point.
Returns a normalized version of the URI. The rules for normalization are scheme-dependent. They usually involve lowercasing the scheme and Internet host name components, removing the explicit port specification if it matches the default port, uppercasing all escape sequences, and unescaping octets that can be better represented as plain characters.

For efficiency reasons, if the $uri is already in normalized form, then a reference to it is returned instead of a copy.

Tests whether two URI references are equal. URI references that normalize to the same string are considered equal. The method can also be used as a plain function which can also test two string arguments.

If you need to test whether two C<URI> object references denote the same object, use the '==' operator.

Returns an absolute URI reference. If $uri is already absolute, then a reference to it is simply returned. If the $uri is relative, then a new absolute URI is constructed by combining the $uri and the $base_uri, and returned.

Returns a relative URI reference if it is possible to make one that denotes the same resource relative to $base_uri. If not, then $uri is simply returned.

Returns a TRUE value if the URI is considered to point to a resource on a secure channel, such as an SSL or TLS encrypted one.

The following methods are available to schemes that use the common/generic syntax for hierarchical namespaces. The descriptions of
schemes below indicate which these are. Unknown schemes are assumed to support the generic syntax, and therefore the following methods:

=item $uri->authority

Sets and returns the escaped authority component of the $uri.

=item $uri->path

Sets and returns the escaped path component of the $uri (the part between the host name and the query or fragment). The path can never be undefined, but it can be the empty string.

=item $uri->path_query

Sets and returns the escaped path and query components as a single entity. The path and the query are separated by a "?" character, but the query can itself contain "?".

=item $uri->path_segments

Sets and returns the path. In a scalar context, it returns the same value as $uri->path. In a list context, it returns the unescaped path segments that make up the path. Path segments that have parameters are returned as an anonymous array. The first element is the unescaped path segment proper; subsequent elements are escaped parameter strings. Such an anonymous array uses overloading so it can be treated as a string too, but this string does not include the parameters.

Note that absolute paths have the empty string as their first path_segment, i.e. the path C</foo/bar> have 3 path_segments: "", "foo" and "bar".

=item $uri->query
Sets and returns the escaped query component of the $uri.

Sets and returns query components that use the `application/x-www-form-urlencoded` format. Key/value pairs are separated by "&", and the key is separated from the value by a "=" character.

The form can be set either by passing separate key/value pairs, or via an array or hash reference. Passing an empty array or an empty hash removes the query component, whereas passing no arguments at all leaves the component unchanged. The order of keys is undefined if a hash reference is passed. The old value is always returned as a list of separate key/value pairs. Assigning this list to a hash is unwise as the keys returned might repeat.

The values passed when setting the form can be plain strings or references to arrays of strings. Passing an array of values has the same effect as passing the key repeatedly with one value at a time. All the following statements have the same effect:

```
$uri->query_form(foo => 1, foo => 2);
$uri->query_form(foo => [1, 2]);
$uri->query_form({ foo => 1, foo => 2 });
$uri->query_form({ foo => [1, 2 ] });
```

The $delim parameter can be passed as ";;" to force the key/value pairs to be delimited by ";;" instead of "&" in the query string. This practice is often recommended for URLs embedded in HTML or XML documents as this avoids the trouble of escaping the "&" character. You might also set the $URI::DEFAULT_QUERY_FORM_DELIMITER variable to

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";" for the same global effect.
The C<URI::QueryParam> module can be loaded to add further methods to
manipulate the form of a URI. See L<URI::QueryParam> for details.
=item $uri->query_keywords
=item $uri->query_keywords( $keywords, ... )
=item $uri->query_keywords( \@keywords )
Sets and returns query components that use the
keywords separated by "+" format.
The keywords can be set either by passing separate keywords directly
or by passing a reference to an array of keywords. Passing an empty
array removes the query component, whereas passing no arguments at
all leaves the component unchanged. The old value is always returned
as a list of separate words.
=back
=head1 SERVER METHODS
For schemes where the I<authority> component denotes an Internet host,
the following methods are available in addition to the generic
methods.
=over 4
=item $uri->userinfo
=item $uri->userinfo( $new_userinfo )
Sets and returns the escaped userinfo part of the
authority component.
For some schemes this is a user name and a password separated by
a colon. This practice is not recommended. Embedding passwords in
clear text (such as URI) has proven to be a security risk in almost
every case where it has been used.
=item $uri->host
=item $uri->host( $new_host )
Sets and returns the unescaped hostname.

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If the $new_host string ends with a colon and a number, then this number also sets the port.

For IPv6 addresses the brackets around the raw address is removed in the return value from $uri->host. When setting the host attribute to an IPv6 address you can use a raw address or one enclosed in brackets. The address needs to be enclosed in brackets if you want to pass in a new port value as well.

=item $uri->ihost

Returns the host in Unicode form. Any IDNA A-labels are turned into U-labels.

=item $uri->port

=item $uri->port( $new_port )

Sets and returns the port. The port is a simple integer that should be greater than 0.

If a port is not specified explicitly in the URI, then the URI scheme's default port is returned. If you don't want the default port substituted, then you can use the $uri->_port method instead.

=item $uri->host_port

=item $uri->host_port( $new_host_port )

Sets and returns the host and port as a single unit. The returned value includes a port, even if it matches the default port. The host part and the port part are separated by a colon: "::".

For IPv6 addresses the bracketing is preserved; thus URI->new("http://[::1]/")-host_port returns "[][::1]:80". Contrast this with $uri->host which will remove the brackets.

=item $uri->default_port

Returns the default port of the URI scheme to which $uri belongs. For I<http> this is the number 80, for I<ftp> this is the number 21, etc. The default port for a scheme can not be changed.

=back

=head1 SCHEME-SPECIFIC SUPPORT

Scheme-specific support is provided for the following URI schemes. For C<URI>
objects that do not belong to one of these, you can only use the common and
generic methods.

=item B<data>:

The I<data> URI scheme is specified in RFC 2397. It allows inclusion
of small data items as "immediate" data, as if it had been included
externally.

C<URI> objects belonging to the data scheme support the common methods
and two new methods to access their scheme-specific components:
$uri->media_type and $uri->data. See L<URI::data> for details.

=item B<file>:

An old specification of the I<file> URI scheme is found in RFC 1738.
A new RFC 2396 based specification is not available yet, but file URI
references are in common use.

C<URI> objects belonging to the file scheme support the common and
generic methods. In addition, they provide two methods for mapping file URIs
back to local file names; $uri->file and $uri->dir. See L<URI::file>
for details.

=item B<ftp>:

An old specification of the I<ftp> URI scheme is found in RFC 1738. A
new RFC 2396 based specification is not available yet, but ftp URI
references are in common use.

C<URI> objects belonging to the ftp scheme support the common,
generic and server methods. In addition, they provide two methods for
accessing the userinfo sub-components: $uri->user and $uri->password.

=item B<gopher>:

The I<gopher> URI scheme is specified in
<draft-murali-url-gopher-1996-12-04> and will hopefully be available
as a RFC 2396 based specification.

C<URI> objects belonging to the gopher scheme support the common,
generic and server methods. In addition, they support some methods for
accessing gopher-specific path components: $uri->gopher_type,
$uri->selector, $uri->search, $uri->string.

=item B<http>:
The I<http> URI scheme is specified in RFC 2616. The scheme is used to reference resources hosted by HTTP servers.

C<URI> objects belonging to the http scheme support the common, generic and server methods.

=item B<https>:

The I<https> URI scheme is a Netscape invention which is commonly implemented. The scheme is used to reference HTTP servers through SSL connections. Its syntax is the same as http, but the default port is different.

=item B<ldap>:

The I<ldap> URI scheme is specified in RFC 2255. LDAP is the Lightweight Directory Access Protocol. An ldap URI describes an LDAP search operation to perform to retrieve information from an LDAP directory.

C<URI> objects belonging to the ldap scheme support the common, generic and server methods as well as ldap-specific methods: $uri->dn, $uri->attributes, $uri->scope, $uri->filter, $uri->extensions. See L<URI::ldap> for details.

=item B<ldapi>:

Like the I<ldap> URI scheme, but uses a UNIX domain socket. The server methods are not supported, and the local socket path is available as $uri->un_path. The I<ldapi> scheme is used by the OpenLDAP package. There is no real specification for it, but it is mentioned in various OpenLDAP manual pages.

=item B<ldaps>:

Like the I<ldap> URI scheme, but uses an SSL connection. This scheme is deprecated, as the preferred way is to use the I<start_tls> mechanism.

=item B<mailto>:

The I<mailto> URI scheme is specified in RFC 2368. The scheme was originally used to designate the Internet mailing address of an individual or service. It has (in RFC 2368) been extended to allow setting of other mail header fields and the message body.

C<URI> objects belonging to the mailto scheme support the common
methods and the generic query methods. In addition, they support the following mailto-specific methods: $uri->to, $uri->headers.

Note that the "foo@example.com" part of a mailto is I<not> the C<userinfo> and C<host> but instead the C<path>. This allows a mailto URI to contain multiple comma separated email addresses.

=item B<mms>:

The I<mms> URL specification can be found at L<http://sdp.ppona.com/>. C<URI> objects belonging to the mms scheme support the common, generic, and server methods, with the exception of userinfo and query-related sub-components.

=item B<news>:

The I<news>, I<nntp> and I<snews> URI schemes are specified in <draft-gilman-news-url-01> and will hopefully be available as an RFC 2396 based specification soon. C<URI> objects belonging to the news scheme support the common, generic and server methods. In addition, they provide some methods to access the path: $uri->group and $uri->message.

=item B<nntp>:

See I<news> scheme.

=item B<pop>:

The I<pop> URI scheme is specified in RFC 2384. The scheme is used to reference a POP3 mailbox.

C<URI> objects belonging to the pop scheme support the common, generic and server methods. In addition, they provide two methods to access the userinfo components: $uri->user and $uri->auth

=item B<rlogin>:

An old specification of the I<rlogin> URI scheme is found in RFC 1738. C<URI> objects belonging to the rlogin scheme support the common, generic and server methods.

=item B<rtsp>:

The I<rtsp> URL specification can be found in section 3.2 of RFC 2326. C<URI> objects belonging to the rtsp scheme support the common, generic, and server methods, with the exception of userinfo and
query-related sub-components.

=item B<rtspu>:

The I<rtspu> URI scheme is used to talk to RTSP servers over UDP instead of TCP. The syntax is the same as rtsp.

=item B<rsync>:

Information about rsync is available from L<http://rsync.samba.org/>. C<URI> objects belonging to the rsync scheme support the common, generic and server methods. In addition, they provide methods to access the userinfo sub-components: $uri->user and $uri->password.

=item B<sip>:

The I<sip> URI specification is described in sections 19.1 and 25 of RFC 3261. C<URI> objects belonging to the sip scheme support the common, generic, and server methods with the exception of path related sub-components. In addition, they provide two methods to get and set I<sip> parameters: $uri->params_form and $uri->params.

=item B<sips>:

See I<sip> scheme. Its syntax is the same as sip, but the default port is different.

=item B<snews>:

See I<news> scheme. Its syntax is the same as news, but the default port is different.

=item B<telnet>:

An old specification of the I<telnet> URI scheme is found in RFC 1738. C<URI> objects belonging to the telnet scheme support the common, generic and server methods.

=item B<tn3270>:

These URIs are used like I<telnet> URIs but for connections to IBM mainframes. C<URI> objects belonging to the tn3270 scheme support the common, generic and server methods.

=item B<ssh>:

Information about ssh is available at L<http://www.openssh.com/>. C<URI> objects belonging to the ssh scheme support the common,
generic and server methods. In addition, they provide methods to access the userinfo sub-components: $uri->user and $uri->password.

=item B<$urn>:

The syntax of Uniform Resource Names is specified in RFC 2141. C<URI> objects belonging to the urn scheme provide the common methods, and also the methods $uri->nid and $uri->nss, which return the Namespace Identifier and the Namespace-Specific String respectively.

The Namespace Identifier basically works like the Scheme identifier of URIs, and further divides the URN namespace. Namespace Identifier assignments are maintained at L<http://www.iana.org/assignments/urn-namespaces>.

Letter case is not significant for the Namespace Identifier. It is always returned in lower case by the $uri->nid method. The $uri->_nid method can be used if you want it in its original case.

=item B<$urn>:B<isbn>:

The C<urn:isbn:> namespace contains International Standard Book Numbers (ISBNs) and is described in RFC 3187. A C<URI> object belonging to this namespace has the following extra methods (if the Business::ISBN module is available): $uri->isbn, $uri->isbn_publisher_code, $uri->isbn_group_code (formerly isbn_country_code, which is still supported by issues a deprecation warning), $uri->isbn_as_ean.

=item B<$urn>:B<oid>:

The C<urn:oid:> namespace contains Object Identifiers (OIDs) and is described in RFC 3061. An object identifier consists of sequences of digits separated by dots. A C<URI> object belonging to this namespace has an additional method called $uri->oid that can be used to get/set the oid value. In a list context, oid numbers are returned as separate elements.

=back

=head1 CONFIGURATION VARIABLES

The following configuration variables influence how the class and its methods behave:

=over 4

=item $URI::ABS_ALLOW_RELATIVE_SCHEME

Some older parsers used to allow the scheme name to be present in the
relative URL if it was the same as the base URL scheme. RFC 2396 says that this should be avoided, but you can enable this old behaviour by setting the $URI::ABS_ALLOW_RELATIVE_SCHEME variable to a TRUE value. The difference is demonstrated by the following examples:

```perl
URI->new("http:foo")->abs("http://host/a/b")
    ==> "http:foo"

local $URI::ABS_ALLOW_RELATIVE_SCHEME = 1;
URI->new("http:foo")->abs("http://host/a/b")
    ==> "http:/host/a/foo"
```

=item $URI::ABS_REMOTE_LEADING_DOTS

You can also have the abs() method ignore excess ".." segments in the relative URI by setting $URI::ABS_REMOTE_LEADING_DOTS to a TRUE value. The difference is demonstrated by the following examples:

```perl
URI->new("../../../foo")->abs("http://host/a/b")
    ==> "http://host/../../foo"

local $URI::ABS_REMOTE_LEADING_DOTS = 1;
URI->new("../../../foo")->abs("http://host/a/b")
    ==> "http://host/foo"
```

=item $URI::DEFAULT_QUERY_FORM_DELIMITER

This value can be set to ";" to have the query form C<key=value> pairs delimited by ";" instead of ";" which is the default.

=back

=head1 BUGS

There are some things that are not quite right:

=over

=item *

Using regexp variables like $1 directly as arguments to the URI accessor methods does not work too well with current perl implementations. I would argue that this is actually a bug in perl. The workaround is to quote them. Example:

```perl
/\1/ || die;
```
The escaping (percent encoding) of chars in the 128 .. 255 range passed to the URI constructor or when setting URI parts using the accessor methods depend on the state of the internal UTF8 flag (see utf8::is_utf8) of the string passed. If the UTF8 flag is set the UTF-8 encoded version of the character is percent encoded. If the UTF8 flag isn't set the Latin-1 version (byte) of the character is percent encoded. This basically exposes the internal encoding of Perl strings.

=head1 PARSING URIs WITH REGEXP

As an alternative to this module, the following (official) regular expression can be used to decode a URI:

```
my($scheme, $authority, $path, $query, $fragment) = $uri =~ m|(?:(\[^:/?#]+):)?(?://(\[^/?#]*))?([^?#]*)(?:\?([^#]*))?([^#]*);|
```

The C<URI::Split> module provides the function uri_split() as a readable alternative.

=head1 SEE ALSO

L<URI::file>, L<URI::WithBase>, L<URI::QueryParam>, L<URI::Escape>, L<URI::Split>, L<URI::Heuristic>


L<http://www.iana.org/assignments/uri-schemes>

L<http://www.iana.org/assignments/urn-namespaces>

L<http://www.w3.org/Addressing/>

=head1 COPYRIGHT

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AUTHORS / ACKNOWLEDGMENTS

This module is based on the C<URI::URL> module, which in turn was (distantly) based on the C<wwwurl.pl> code in the libwww-perl for perl4 developed by Roy Fielding, as part of the Arcadia project at the University of California, Irvine, with contributions from Brooks Cutter.

C<URI::URL> was developed by Gisle Aas, Tim Bunce, Roy Fielding and Martijn Koster with input from other people on the libwww-perl mailing list.

C<URI> and related subclasses was developed by Gisle Aas.

NAME

URI::Heuristic - Expand URI using heuristics

SYNOPSIS

use URI::Heuristic qw(uf_uristr);
$u = uf_uristr("perl");       # http://www.perl.com
$u = uf_uristr("www.sol.no/sol");  # http://www.sol.no/sol
$u = uf_uristr("aas");       # http://www.aas.no
$u = uf_uristr("/etc/passwd");  # file:/etc/passwd

DESCRIPTION

This module provides functions that expand strings into real absolute URIs using some built-in heuristics. Strings that already represent absolute URIs (i.e. that start with a C<scheme:> part) are never modified and are returned unchanged. The main use of these functions is to allow abbreviated URIs similar to what many web browsers allow for URIs typed in by the user.

The following functions are provided:

uf_uristr($str)
Tries to make the argument string into a proper absolute URI string. The "uf_" prefix stands for "User Friendly". Under MacOS, it assumes that any string with a common URL scheme (http, ftp, etc.) is a URL rather than a local path. So don't name your volumes after common URL schemes and expect uf_uristr() to construct valid file: URL's on those volumes for you, because it won't.

=item uf_uri($str)

Works the same way as uf_uristr() but returns a C<URI> object.

=back

=head1 ENVIRONMENT

If the hostname portion of a URI does not contain any dots, then certain qualified guesses are made. These guesses are governed by the following environment variables:

=over 10

=item COUNTRY

The two-letter country code (ISO 3166) for your location. If the domain name of your host ends with two letters, then it is taken to be the default country. See also L<Locale::Country>.

=item HTTP_ACCEPT_LANGUAGE, LC_ALL, LANG

If COUNTRY is not set, these standard environment variables are examined and country (not language) information possibly found in them is used as the default country.

=item URL_GUESS_PATTERN

Contains a space-separated list of URL patterns to try. The string "ACME" is for some reason used as a placeholder for the host name in the URL provided. Example:

    URL_GUESS_PATTERN="www.ACME.no www.ACME.se www.ACME.com"
    export URL_GUESS_PATTERN

Specifying URL_GUESS_PATTERN disables any guessing rules based on country. An empty URL_GUESS_PATTERN disables any guessing that involves host name lookups.
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NAME

URI::Escape - Percent-encode and percent-decode unsafe characters

SYNOPSIS

use URI::Escape;

$self = uri_escape("10% is enough\n");
$self = uri_escape("foo", "\0-\377");
$str  = uri_unescape($safe);

DESCRIPTION

This module provides functions to percent-encode and percent-decode URI strings as defined by RFC 3986. Percent-encoding URI's is informally called "URI escaping". This is the terminology used by this module, which predates the formalization of the terms by the RFC by several years.

A URI consists of a restricted set of characters. The restricted set of characters consists of digits, letters, and a few graphic symbols chosen from those common to most of the character encodings and input facilities available to Internet users. They are made up of the "unreserved" and "reserved" character sets as defined in RFC 3986.

unreserved  = ALPHA / DIGIT / ":" / ";" / ";" / ";" / ";"
reserved    = ";" / ";" / ";" / ";" / ";" / ";" / ";" / ";" / ";" / ";" / ";" / ";" / ";" / ";"

license: perl

Finally, no license file was found, but licenses were detected in source scan.

No license file was found, but licenses were detected in source scan.

URI::Escape - Percent-encode and percent-decode unsafe characters
In addition, any byte (octet) can be represented in a URI by an escape sequence: a triplet consisting of the character "%" followed by two hexadecimal digits. A byte can also be represented directly by a character, using the US-ASCII character for that octet.

Some of the characters are reserved for use as delimiters or as part of certain URI components. These must be escaped if they are to be treated as ordinary data. Read RFC 3986 for further details.

The functions provided (and exported by default) from this module are:

```perl
=item uri_escape( $string )
=item uri_escape( $string, $unsafe )
```

Replaces each unsafe character in the $string with the corresponding escape sequence and returns the result. The $string argument should be a string of bytes. The uri_escape() function will croak if given a characters with code above 255. Use uri_escape_utf8() if you know you have such chars or/and want chars in the 128 .. 255 range treated as UTF-8.

The uri_escape() function takes an optional second argument that overrides the set of characters that are to be escaped. The set is specified as a string that can be used in a regular expression character class (between [ ]). E.g.:

```
"\x00-\x1f\x7f-\xff"          # all control and hi-bit characters
"a-z"                         # all lower case characters
"^A-Za-z"                     # everything not a letter
```

The default set of characters to be escaped is all those which are not part of the C<unreserved> character class shown above as well as the reserved characters. I.e. the default is:

```
"^A-Za-z0-9\-\._~"
```

```perl
=item uri_escape_utf8( $string )
=item uri_escape_utf8( $string, $unsafe )
```

Works like uri_escape(), but will encode chars as UTF-8 before escaping them. This makes this function able to deal with characters with code above 255 in $string. Note that chars in the 128 .. 255 range are
range will be escaped differently by this function compared to what
uri_escape() would. For chars in the 0 .. 127 range there is no
difference.

Equivalent to:

    utf8::encode($string);
    my $uri = uri_escape($string);

Note: JavaScript has a function called escape() that produces the
sequence "%uXXXX" for chars in the 256 .. 65535 range. This function
has really nothing to do with URI escaping but some folks got confused
since it "does the right thing" in the 0 .. 255 range. Because of
this you sometimes see "URIs" with these kind of escapes. The
JavaScript encodeURIComponent() function is similar to uri_escape_utf8().

=item uri_unescape($string,...)

Returns a string with each %XX sequence replaced with the actual byte
(octet).

This does the same as:

    $string =~ s/%([0-9A-Fa-f]{2})/chr(hex($1))/eg;

but does not modify the string in-place as this RE would. Using the
uri_unescape() function instead of the RE might make the code look
cleaner and is a few characters less to type.

In a simple benchmark test I did,
calling the function (instead of the inline RE above) if a few chars
were unescaped was something like 40% slower, and something like 700% slower if none were. If
you are going to unescape a lot of times it might be a good idea to
inline the RE.

If the uri_unescape() function is passed multiple strings, then each
one is returned unescaped.

=back

The module can also export the C<%escapes> hash, which contains the
mapping from all 256 bytes to the corresponding escape codes. Lookup
in this hash is faster than evaluating C<sprintf("%%%02X", ord($byte))>
each time.

=head1 SEE ALSO

L<URI>
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Found in path(s):
* /opt/cola/permits/1138400755_1614281803.46/0/liburi-perl-l-60-orig-1-tar-gz/URI-1.60/URI/Escape.pm
No license file was found, but licenses were detected in source scan.

NAME
URI::file - URI that maps to local file names

SYNOPSIS
use URI::file;

$u1 = URI->new("file:/foo/bar");
$u2 = URI->new("foo/bar", "file");

$u3 = URI::file->new($path);
$u4 = URI::file->new("c:\windows\", "win32");

$u1->file;
$u1->file("mac");

DESCRIPTION

The C<URI::file> class supports C<URI> objects belonging to the I<file> URI scheme. This scheme allows us to map the conventional file names found on various computer systems to the URI name space. An old specification of the I<file> URI scheme is found in RFC 1738. Some older background information is also in RFC 1630. There are no newer specifications as far as I know.

If you simply want to construct I<file> URI objects from URI strings, use the normal C<URI> constructor. If you want to construct I<file> URI objects from the actual file names used by various systems, then use one of the following C<URI::file> constructors:

over 4
Maps a file name to the I<file> URI name space, creates a URI object and returns it. The $filename is interpreted as belonging to the indicated operating system ($os), which defaults to the value of the $^O variable. The $filename can be either absolute or relative, and the corresponding type of URI object for $os is returned.

Same as URI::file->new, but makes sure that the URI returned represents an absolute file name. If the $filename argument is relative, then the name is resolved relative to the current directory, i.e. this constructor is really the same as:

URI::file->new($filename)->abs(URI::file->cwd);

Returns a I<file> URI that represents the current working directory. See L<Cwd>.

The following methods are supported for I<file> URI (in addition to the common and generic methods described in L<URI>):

Returns a file name. It maps from the URI name space to the file name space of the indicated operating system.

It might return C<undef> if the name can not be represented in the indicated file system.

Some systems use a different form for names of directories than for plain files. Use this method if you know you want to use the name for a directory.

The C<URI::file> module can be used to map generic file names to names suitable for the current system. As such, it can work as a nice replacement for the C<File::Spec> module. For instance, the following
code translates the UNIX-style file name F<Foo/Bar.pm> to a name suitable for the local system:

```perl
$file = URI::file->new("Foo/Bar.pm", "unix")-&gt;file;
die "Can't map filename Foo/Bar.pm for $^O" unless defined $file;
open(FILE, $file) || die "Can't open '$file': $!";
# do something with FILE
```

=head1 MAPPING NOTES

Most computer systems today have hierarchically organized file systems. Mapping the names used in these systems to the generic URI syntax allows us to work with relative file URIs that behave as they should when resolved using the generic algorithm for URIs (specified in RFC 2396). Mapping a file name to the generic URI syntax involves mapping the path separator character to "/" and encoding any reserved characters that appear in the path segments of the file name. If path segments consisting of the strings "." or ".:." have a different meaning than what is specified for generic URIs, then these must be encoded as well.

If the file system has device, volume or drive specifications as the root of the name space, then it makes sense to map them to the authority field of the generic URI syntax. This makes sure that relative URIs can not be resolved "above" them, i.e. generally how relative file names work in those systems.

Another common use of the authority field is to encode the host on which this file name is valid. The host name "localhost" is special and generally has the same meaning as a missing or empty authority field. This use is in conflict with using it as a device specification, but can often be resolved for device specifications having characters not legal in plain host names.

File name to URI mapping in normally not one-to-one. There are usually many URIs that map to any given file name. For instance, an authority of "localhost" maps the same as a URI with a missing or empty authority.

Example 1: The Mac classic (Mac OS 9 and earlier) used "::" as path separator, but not in the same way as a generic URI. ":foo" was a relative name. "foo:bar" was an absolute name. Also, path segments could contain the "/" character as well as the literal "." or ".:.". So the mapping looks like this:

<table>
<thead>
<tr>
<th>Mac classic</th>
<th>URI</th>
</tr>
</thead>
<tbody>
<tr>
<td>:foo:bar</td>
<td>foo/bar</td>
</tr>
<tr>
<td>:</td>
<td>./</td>
</tr>
</tbody>
</table>
::foo:bar  <=>  ../foo/bar
:::          <=>  ../../
foo:bar      <=>  file:/foo/bar
foo:bar:     <=>  file:/foo/bar/
..           <=>  %2E%2E
<undef>      <=>  /
foo/         <=>  file:/foo%2F
./foo.txt    <=>  file:/%2Ffoo.txt

Note that if you want a relative URL, you *must* begin the path with a ::. Any path that begins with [^:] is treated as absolute.

Example 2: The UNIX file system is easy to map, as it uses the same path separator as URIs, has a single root, and segments of "." and ".." have the same meaning. URIs that have the character "\0" or "/" as part of any path segment can not be turned into valid UNIX file names.

<table>
<thead>
<tr>
<th>UNIX</th>
<th>URI</th>
</tr>
</thead>
<tbody>
<tr>
<td>foo/bar</td>
<td>foo/bar</td>
</tr>
<tr>
<td>/foo/bar</td>
<td>file:/foo/bar</td>
</tr>
<tr>
<td>/foo/bar</td>
<td>file://localhost/foo/bar</td>
</tr>
<tr>
<td>file:</td>
<td>./file:</td>
</tr>
<tr>
<td>&lt;undef&gt;</td>
<td>file://fo%00/bar</td>
</tr>
<tr>
<td>/</td>
<td>file:/</td>
</tr>
</tbody>
</table>

=cut

RFC 1630

[...]

There is clearly a danger of confusion that a link made to a local file should be followed by someone on a different system, with unexpected and possibly harmful results. Therefore, the convention is that even a "file" URL is provided with a host part. This allows a client on another system to know that it cannot access the file system, or perhaps to use some other local mechanism to access the file.

The special value "localhost" is used in the host field to indicate that the filename should really be used on whatever host one is. This for example allows links to be made to files which are distributed on many machines, or to "your unix local password file" subject of course to consistency across the users of the data.

A void host field is equivalent to "localhost".
=head1 CONFIGURATION VARIABLES

The following configuration variables influence how the class and its methods behave:

=over

=item %URI::file::OS_CLASS

This hash maps OS identifiers to implementation classes. You might want to add or modify this if you want to plug in your own file handler class. Normally the keys should match the $^O values in use. If there is no mapping then the "Unix" implementation is used.

=item $URI::file::DEFAULT_AUTHORITY

This determine what "authority" string to include in absolute file URIs. It defaults to "". If you prefer verbose URIs you might set it to be "localhost".

Setting this value to C<undef> force behaviour compatible to URI v1.31 and earlier. In this mode host names in UNC paths and drive letters are mapped to the authority component on Windows, while we produce authority-less URIs on Unix.

=back

=head1 SEE ALSO

L<URI>, L<File::Spec>, L<perlport>

=head1 COPYRIGHT


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=cut

Found in path(s):
* /opt/cola/permits/1138400755_1614281803.46/0/liburi-perl-1-60-orig-1-tar-gz/URI-1.60/URI/file.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
URI::data - URI that contains immediate data

=head1 SYNOPSIS

use URI;

$u = URI->new("data:");
$u->media_type("image/gif");
$u->data(scalar(`cat camel.gif`));
print "$u\n";
open(XV, "|xv -") and print XV $u->data;

=head1 DESCRIPTION

The C<URI::data> class supports C<URI> objects belonging to the I<data> URI scheme. The I<data> URI scheme is specified in RFC 2397. It allows inclusion of small data items as "immediate" data, as if it had been included externally. Examples:

data:,Perl%20is%20good
data:image/gif;base64,R0lGODdhIAAgAIAAAAAAAPj8+CwAAAAAI
AAGAAACIYpPcu9AJyCjtIk5w5xP14xgeO2tY3nWcajmZZdeJcG
Kxrmimms1KMTalWg8UROx4MNUq1HrycMjHT9b6xKxaFLM6VRKzJ+p
K59XjXpcbun6uWVvJXJ8pNPkdkkhxnc21LZHFOgD2KMoQXa2KMWI
JtnE2KizVUKYVZZ1nczBxXIIFopZBtoJ2diXGdNUynmJdFMAADs=

C<URI> objects belonging to the data scheme support the common methods (described in L<URI>) and the following two scheme-specific methods:

=over 4

=item $uri->media_type( [$new_media_type] )

Can be used to get or set the media type specified in the URI. If no media type is specified, then the default C<"text/plain;charset=US-ASCII"> is returned.

=item $uri->data( [$new_data] )

Can be used to get or set the data contained in the URI. The data is passed unescaped (in binary form). The decision about whether to base64 encode the data in the URI is taken automatically, based on the encoding that produces the shorter URI string.
SEE ALSO

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NAME

URI::Split - Parse and compose URI strings

SYNOPSIS

use URI::Split qw(uri_split uri_join);
($scheme, $auth, $path, $query, $frag) = uri_split($uri);
$uri = uri_join($scheme, $auth, $path, $query, $frag);

DESCRIPTION

Provides functions to parse and compose URI strings. The following functions are provided:

uri_split($uri)

Breaks up a URI string into its component parts. An undef value is returned for those parts that are not...
No sensible value is returned if this function is called in a scalar context.

item $uri = uri_join($scheme, $auth, $path, $query, $frag)

Puts together a URI string from its parts.  Missing parts are signaled by passing C<undef> for the corresponding argument.

Minimal escaping is applied to parts that contain reserved chars that would confuse a parser.  For instance, any occurrence of '?' or '#' in $path is always escaped, as it would otherwise be parsed back as a query or fragment.

=head1 SEE ALSO

L<URI>, L<URI::Escape>

=head1 COPYRIGHT

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=cut

No license file was found, but licenses were detected in source scan.

=head1 NAME

URI::_punycode - encodes Unicode string in Punycode

=head1 SYNOPSIS

use URI::_punycode;
$punycode = encode_punycode($unicode);
$unicode = decode_punycode($punycode);

=head1 DESCRIPTION

Present.  The $path part is always present (but can be the empty string) and is thus never returned as C<undef>.
URI::_punycode is a module to encode / decode Unicode strings into Punycode, an efficient encoding of Unicode for use with IDNA.

This module requires Perl 5.6.0 or over to handle UTF8 flagged Unicode strings.

=head1 FUNCTIONS

This module exports following functions by default.

=over 4

=item encode_punycode

$punycode = encode_punycode($unicode);

takes Unicode string (UTF8-flagged variable) and returns Punycode encoding for it.

=item decode_punycode

$unicode = decode_punycode($punycode)

takes Punycode encoding and returns original Unicode string.

=back

These functions throw exceptions on failure. You can catch 'em via C<eval>.

=head1 AUTHOR

Tatsuhiko Miyagawa <miyagawa@bulknews.net> is the author of IDNA::Punycode v0.02 which was the basis for this module.

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=head1 SEE ALSO

L<IDNA::Punycode>, RFC 3492

=cut

Found in path(s):
* /opt/cola/permits/1138400755_1614281803.46/0/liburi-perl-1-60-orig-1-tar-gz/URI-1.60/URI/_punycode.pm

No license file was found, but licenses were detected in source scan.
# Copyright (c) 1998 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=head1 NAME

URI::ldap - LDAP Uniform Resource Locators

=head1 SYNOPSIS

use URI;

$uri = URI->new("ldap:$uri_string");
$dn   = $uri->dn;
$filter = $uri->filter;
@attr = $uri->attributes;
$scope = $uri->scope;
%extn  = $uri->extensions;

$uri = URI->new("ldap:"); # start empty
$uri->host("ldap.itd.umich.edu");
$uri->dn("o=University of Michigan,c=US");
$uri->attributes(qw(postalAddress));
$uri->scope('sub');
$uri->filter('cn=Babs Jensen');
print $uri->as_string,"n";

=head1 DESCRIPTION

C<URI::ldap> provides an interface to parse an LDAP URI into its constituent parts and also to build a URI as described in RFC 2255.

=head1 METHODS

C<URI::ldap> supports all the generic and server methods defined by L<URI>, plus the following.

Each of the following methods can be used to set or get the value in the URI. The values are passed in unescaped form. None of these return undefined values, but elements without a default can be empty. If arguments are given, then a new value is set for the given part of the URI.

=over 4
=item $uri->dn( [$new_dn] )

Sets or gets the I<Distinguished Name> part of the URI. The DN
identifies the base object of the LDAP search.

=item $uri->attributes( [@new_attrs] )

Sets or gets the list of attribute names which are returned by the search.

=item $uri->scope( [$new_scope] )

Sets or gets the scope to be used by the search. The value can be one of C<"base">, C<"one"> or C<"sub">. If none is given in the URI then the return value defaults to C<"base">.

=item $uri->_scope( [$new_scope] )

Same as scope(), but does not default to anything.

=item $uri->filter( [$new_filter] )

Sets or gets the filter to be used by the search. If none is given in the URI then the return value defaults to C<"(objectClass=*)">. 

=item $uri->_filter( [$new_filter] )

Same as filter(), but does not default to anything.

=item $uri->extensions( [$etype => $evalue,...] )

Sets or gets the extensions used for the search. The list passed should be in the form etype1 => evalue1, etype2 => evalue2,... This is also the form of list that is returned.

=back

=head1 SEE ALSO


=head1 AUTHOR

Graham Barr E<lt>gbarr@pobox.com>E<gt>

Slightly modified by Gisle Aas to fit into the URI distribution.

=head1 COPYRIGHT

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terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1138400755_1614281803.46/0/liburi-perl-1-60-orig-1-tar-gz/URI-1.60/URI/ldap.pm

1.3741 netty 4.0.29.Final
1.3741.1 Available under license :

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Version 2.1, February 1999

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
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Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
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Smith, Andy
Sobrado, Igor
Soulen, Steven
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Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
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1.3746 perl-pod-usage 1.63-3.el7

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END OF TERMS AND CONDITIONS

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 10/3/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG PHYIE)
* 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG PHYIE)
* 10/6/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG PHYIE)
* 10/7/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG PHYIE)
* 10/8/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG PHYIE)
* 10/9/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

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for many bugfixes

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for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code, the module unloading problems, ...

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for his work on calculating and checking the crc’s for the TechnoTrend/Hauppauge DEC driver firmware

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.3759 pam 1.1.8-3.1+deb8u2

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1.3780 device-mapper-multipath 0.4.9-134.el7_9

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
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Whether this is true is especially significant if the work can be

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.3781 biosdevname 0.7.2 1.el7

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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Name: cloud-init

Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

This package was debianized by Soren Hansen <soren@ubuntu.com> on Thu, 04 Sep 2008 12:49:15 +0200 as ec2-init. It was later renamed to cloud-utils by Scott Moser <scott.moser@canonical.com>

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Open Source Used In Tetration 3.5.1 41661
Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on `stderr`, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.
>PQsetNoticeReceiver</CODE

>  

<A NAME="AEN35430"></A

<A NAME="AEN35432"></A

sets or

examines the current notice receiver for a connection object.

Similarly, <CODE CLASS="FUNCTION">
PQsetNoticeProcessor</CODE

>

<A NAME="AEN35435"></A

<A NAME="AEN35437"></A

sets or

examines the current notice processor.

</P><PRE CLASS="SYNOPSIS">
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
    PQnoticeReceiver proc,
    void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
    PQnoticeProcessor proc,
    void *arg);

</PRE

> Each of these functions returns the previous notice receiver or

processor function pointer, and sets the new value. If you supply a

null function pointer, no action is taken, but the current pointer is

returned.

</P

> When a notice or warning message is received from the server, or
generated internally by &libpq&

The notice receiver function is called. It is passed the message in the form of 

- **PGRES_NONFATAL_ERROR**

The default notice receiver simply extracts the message (using 

- **PQresultErrorMessage**

and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to **PQsetNoticeProcessor**

The default notice processor is simply:
Once you have set a notice receiver or processor, you should expect
that that function could be called as long as either the

```
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect
that that function could be called as long as either the

 `<TT
CLASS="STRUCTNAME"
>PGconn</TT
`
> object or `<TT
CLASS="STRUCTNAME"
>PGresult</TT
`
> objects made
> from it exist. At creation of a `<TT
CLASS="STRUCTNAME"
>PGresult</TT
>`, the `<TT
CLASS="STRUCTNAME"
>PGconn</TT
>`'s current notice handling pointers are copied
> into the `<TT
CLASS="STRUCTNAME"
>PGresult</TT
>`
> for possible use by functions like
> `<CODE
CLASS="FUNCTION"
>PQgetvalue</CODE
>`
>
</P>
</DIV

```
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"http://www.w3.org/TR/html4/loose.dtd">
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<head>
<meta name="GENERATOR"
>PostgreSQL</SPAN>
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</P
> <SPAN
CLASS="PRODUCTNAME"
>Postgres95</SPAN>
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</P
> </DIV
> <DIV
CLASS="NAVFOOTER"
><HR
ALIGN="LEFT"
WIDTH="100%"">
This patch contains several fixes to NetBSD's indent and should be applied before using pgindent.

Index: README
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/README,v
retrieving revision 1.1
diff -c -r1.1 README
*** README9 Apr 1993 12:59:06 -00001.1
--- README15 Nov 2005 00:25:43 -0000
***************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
This is the C indenter, it originally came from the University of Illinois via some distribution tape for PDP-11 Unix. It has subsequently been hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs

```c
DEFS
int last_token;

EXTERN struct parser_state {
int last_token;
};
```

---

---
! struct templ specials[1000] =
{
    {"switch", 1},
    {"case", 2},
    ...
}

int rwcode;

! struct templ specials[16384] =
{
    {"switch", 1},
    {"case", 2},
    **************
    *** 622,629 ****
else
    p++;
if (p >= specials + sizeof specials / sizeof specials[0])
    return;/* For now, table overflows are silently
    * ignored */
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
    --- 622,632 ----
else
    p++;
if (p >= specials + sizeof specials / sizeof specials[0])
    {
        fprintf(stderr, "indent: typedef table overflow\n");
        exit(1);
    }
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
Index: parse.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/parse.c,v
retrieving revision 1.7
diff -c -r1.7 parse.c
*** parse.c7 Aug 2003 11:14:09 -00001.7
--- parse.c15 Nov 2005 00:25:44 -0000
***************
*** 231,236 ****
--- 231,241 ----

}/* end of switch */

+ if (ps.tos >= STACK_SIZE) {
fprintf(stderr, "indent: stack size overflow\n");
exit(1);
}

reduce(); /* see if any reduction can be done */

#ifdef debug
Index: pr_comment.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/pr_comment.c,v
retrieving revision 1.9
diff -c -r1.9 pr_comment.c
*** pr_comment.c 7 Aug 2003 11:14:09 -0000 1.9
--- pr_comment.c 15 Nov 2005 00:25:44 -0000
***************
*** 148,154 ****
ps.box_com = true;
ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
ps.box_com = true; /* a comment with a '-', '*',
* or newline immediately
* after the start comment is
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! */
! * Don't process '\n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '*') {
ps.box_com = true; /* a comment with a '-', '*'
* or newline immediately
* after the start comment is
***************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '\n');
+
+ /* If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/*/" takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+    *e_com++ = ' ' /* add blanks for continuation */
+    *e_com++ = ' ';
+    *e_com++ = ' ';
+    now_col += 3;
+  }
} else
if (++buf_ptr >= buf_end)
fill_buffer();

1.3789 apparmor 2.10.95-0ubuntu2.6~14.04.4

1.3789.1 Available under license:

This license applies to all source files within the AppArmor parser package.

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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\'nModule-Build mailing list at <module-
build@perl.org>;
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.3801 perl-io-html 1.00-2.el7

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    Gnomovision version 69, Copyright (C) 19xx name of author
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    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
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    <signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.3802 icu 44

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# -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n | sed "s/(\$*)\.o[ ]*:]/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed "s/(\$*)\.o[ ]*:]/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.3803 gnutls 3.3.8-6+deb8u7

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 version 0.1

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It was downloaded from <http://ftp.gnome.org/pub/GNOME/sources/glib/>.

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1.3807 base-files 7.2ubuntu5.5

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jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/VarInsnNode.java
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jar/org/objectweb/asm/util/CheckAnnotationAdapter.java

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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4.jar/org/objectweb/asm/xml/SAXClassAdapter.java
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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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1.3815 iproute 3.12.0-2ubuntu1

1.3815.1 Available under license :
This is the Debian GNU/Linux's prepackaged version of the
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## -*-makefile-*-##
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD SONAME = -Wl,-soname,-Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%: $(srcdir)/%.c

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%: $(srcdir)/%.cpp

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@sHELL -ec "$\(GEN\_DEPS\.c\) $< \n sed \"s/(\$<)\!\o\:.*/\1.o $@ : /g\" > $@; \n [-s $@ ] \| rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@sHELL -ec "$\(GEN\_DEPS\.cc\) $< \n sed \"s/(\$<)\!\o\:.*/\1.o $@ : /g\" > $@; \n [-s $@ ] \| rm -f $@"

## Versioned libraries rules

%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
$\(RM\) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
$\(RM\) $@ && ln -s ${*F}.$(SO).$(SO\_TARGET\_VERSION) $@

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1.3817 reactive-streams 1.0.0

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1.3818 e2fsprogs 1.42.9 17.el7

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Theodore Ts'o
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at http://www.ietf.org/rfc/rfc1321.txt

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):
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----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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---------------------------

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@c Local Variables:
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@c End:
```

## 1.3850 python-colorama 0.2.5 0.1ubuntu2

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.7, May 2nd, 2012

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

1.3859 toml4j 0.7.2

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1.3860 diffutils 3.3-1

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1.3865 perl-net-http 6.06-2.el7

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NAME
   Net::HTTP - Low-level HTTP connection (client)

SYNOPSIS
   use Net::HTTP;
   my $s = Net::HTTP->new(Host => "www.perl.com") || die $@;
   $s->write_request(GET => "/", 'User-Agent' => "Mozilla/5.0");
   my($code, $mess, %h) = $s->read_response_headers;

   while (1) {
      my $buf;
      my $n = $s->read_entity_body($buf, 1024);
      die "read failed: $!" unless defined $n;
      last unless $n;
      print $buf;
   }

DESCRIPTION
   The `Net::HTTP' class is a low-level HTTP client. An instance of the `Net::HTTP' class represents a connection to an HTTP server. The HTTP protocol is described in RFC 2616. The `Net::HTTP' class supports `HTTP/1.0' and `HTTP/1.1'.

   `Net::HTTP' is a sub-class of `IO::Socket::INET'. You can mix the methods described below with reading and writing from the socket directly. This is not necessary a good idea, unless you know what you are doing.

   The following methods are provided (in addition to those of `IO::Socket::INET'):
$s = Net::HTTP->new( %options )
The `Net::HTTP' constructor method takes the same options as `IO::Socket::INET''s as well as these:

- Host: Initial host attribute value
- KeepAlive: Initial keep_alive attribute value
- SendTE: Initial send_te attribute_value
- HTTPVersion: Initial http_version attribute value
- PeerHTTPVersion: Initial peer_http_version attribute value
- MaxLineLength: Initial max_line_length attribute value
- MaxHeaderLines: Initial max_header_lines attribute value

The `Host' option is also the default for `IO::Socket::INET''s `PeerAddr'. The `PeerPort' defaults to 80 if not provided.

The `Listen' option provided by `IO::Socket::INET''s constructor method is not allowed.

If unable to connect to the given HTTP server then the constructor returns `undef' and $@ contains the reason. After a successful connect, a `Net:HTTP' object is returned.

$s->host
Get/set the default value of the `Host' header to send. The $host must not be set to an empty string (or `undef') for HTTP/1.1.

$s->keep_alive
Get/set the *keep-alive* value. If this value is TRUE then the request will be sent with headers indicating that the server should try to keep the connection open so that multiple requests can be sent.

The actual headers set will depend on the value of the `http_version' and `peer_http_version' attributes.

$s->send_te
Get/set the a value indicating if the request will be sent with a "TE" header to indicate the transfer encodings that the server can choose to use. The list of encodings announced as accepted by this client depends on availability of the following modules: `Compress::Raw::Zlib' for *deflate*, and `IO::Compress::Gunzip' for *gzip*.

$s->http_version
Get/set the HTTP version number that this client should announce. This value can only be set to "1.0" or "1.1". The default is "1.1".
$s->peer_http_version
   Get/set the protocol version number of our peer. This value will
   initially be "1.0", but will be updated by a successful
   read_response_headers() method call.

$s->max_line_length
   Get/set a limit on the length of response line and response header
   lines. The default is 8192. A value of 0 means no limit.

$s->max_header_length
   Get/set a limit on the number of header lines that a response can
   have. The default is 128. A value of 0 means no limit.

$s->format_request($method, $uri, %headers, [$content])
   Format a request message and return it as a string. If the headers
do not include a `Host' header, then a header is inserted with the
value of the `host' attribute. Headers like `Connection' and
`Keep-Alive' might also be added depending on the status of the
`keep_alive' attribute.

   If $content is given (and it is non-empty), then a `Content-Length'
header is automatically added unless it was already present.

$s->write_request($method, $uri, %headers, [$content])
   Format and send a request message. Arguments are the same as for
format_request(). Returns true if successful.

$s->format_chunk($data )
   Returns the string to be written for the given chunk of data.

$s->write_chunk($data)
   Will write a new chunk of request entity body data. This method
should only be used if the `Transfer-Encoding' header with a value
of `chunked' was sent in the request. Note, writing zero-length data
is a no-op. Use the write_chunk_eof() method to signal end of entity
body data.

   Returns true if successful.

$s->format_chunk_eof( %trailers )
   Returns the string to be written for signaling EOF when a
`Transfer-Encoding' of `chunked' is used.

$s->write_chunk_eof( %trailers )
   Will write eof marker for chunked data and optional trailers. Note
that trailers should not really be used unless is was signaled with
a `Trailer' header.
Returns true if successful.

($code, $mess, %headers) = $s->read_response_headers( %opts )
Read response headers from server and return it. The $code is the 3
digit HTTP status code (see HTTP::Status) and $mess is the textual
message that came with it. Headers are then returned as key/value
pairs. Since key letter casing is not normalized and the same key
can even occur multiple times, assigning these values directly to a
hash is not wise. Only the $code is returned if this method is
called in scalar context.

As a side effect this method updates the 'peer_http_version'
attribute.

Options might be passed in as key/value pairs. There are currently
only two options supported; 'laxed' and 'junk_out'.

The 'laxed' option will make read_response_headers() more forgiving
towards servers that have not learned how to speak HTTP properly.
The 'laxed' option is a boolean flag, and is enabled by passing in a
TRUE value. The 'junk_out' option can be used to capture bad header
lines when 'laxed' is enabled. The value should be an array
reference. Bad header lines will be pushed onto the array.

The 'laxed' option must be specified in order to communicate with
pre-HTTP/1.0 servers that don't describe the response outcome or the
data they send back with a header block. For these servers
peer_http_version is set to "0.9" and this method returns (200,
"Assumed OK").

The method will raise an exception (die) if the server does not
speak proper HTTP or if the `max_line_length` or `max_header_length`
limits are reached. If the 'laxed' option is turned on and
`max_line_length` and `max_header_length` checks are turned off,
then no exception will be raised and this method will always return
a response code.

$n = $s->read_entity_body($buf, $size);
Reads chunks of the entity body content. Basically the same
interface as for read() and sysread(), but the buffer offset
argument is not supported yet. This method should only be called
after a successful read_response_headers() call.

The return value will be `undef` on read errors, 0 on EOF, -1 if no
data could be returned this time, otherwise the number of bytes
assigned to $buf. The $buf is set to "" when the return value is -1.

You normally want to retry this call if this function returns either
-1 or `undef' with `$!' as EINTR or EAGAIN (see Errno). EINTR can happen if the application catches signals and EAGAIN can happen if you made the socket non-blocking.

This method will raise exceptions (die) if the server does not speak proper HTTP. This can only happen when reading chunked data.

```
%headers = $s->get_trailers
```

After read_entity_body() has returned 0 to indicate end of the entity body, you might call this method to pick up any trailers.

```
$s->{rbuf}
```

Get/set the read buffer content. The read_response_headers() and read_entity_body() methods use an internal buffer which they will look for data before they actually sysread more from the socket itself. If they read too much, the remaining data will be left in this buffer.

```
$s->rbuf_length
```

Returns the number of bytes in the read buffer. This should always be the same as:

```
length($s->rbuf)
```

but might be more efficient.

**SUBCLASSING**

The read_response_headers() and read_entity_body() will invoke the sysread() method when they need more data. Subclasses might want to override this method to control how reading takes place.

The object itself is a glob. Subclasses should avoid using hash key names prefixed with `http_' and `io_'.

**SEE ALSO**

LWP, IO::Socket::INET, Net::HTTP::NB

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=head1 NAME

Net::HTTP - Low-level HTTP connection (client)

=head1 SYNOPSIS

use Net::HTTP;
my $s = Net::HTTP->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/", 'User-Agent' => "Mozilla/5.0");
my($code, $mess, %h) = $s->read_response_headers;

while (1) {
    my $buf;
    my $n = $s->read_entity_body($buf, 1024);
    die "read failed: $!
    last unless $n;
    print $buf;
}

=head1 DESCRIPTION

The C<Net::HTTP> class is a low-level HTTP client. An instance of the
C<Net::HTTP> class represents a connection to an HTTP server. The
HTTP protocol is described in RFC 2616. The C<Net::HTTP> class
supports C<HTTP/1.0> and C<HTTP/1.1>.

C<Net::HTTP> is a sub-class of C<IO::Socket::INET>. You can mix the
methods described below with reading and writing from the socket
directly. This is not necessary a good idea, unless you know what you
are doing.

The following methods are provided (in addition to those of
C<IO::Socket::INET>):
=over

=item $s = Net::HTTP->new( %options )

The C<Net::HTTP> constructor method takes the same options as C<IO::Socket::INET>'s as well as these:

  Host:        Initial host attribute value
  KeepAlive:   Initial keep_alive attribute value
  SendTE:      Initial send_te attribute_value
  HTTPVersion: Initial http_version attribute value
  PeerHTTPVersion: Initial peer_http_version attribute value
  MaxLineLength: Initial max_line_length attribute value
  MaxHeaderLines: Initial max_header_lines attribute value

The C<Host> option is also the default for C<IO::Socket::INET>'s C<PeerAddr>. The C<PeerPort> defaults to 80 if not provided.

The C<Listen> option provided by C<IO::Socket::INET>'s constructor method is not allowed.

If unable to connect to the given HTTP server then the constructor returns C<undef> and $@ contains the reason. After a successful connect, a C<Net::HTTP> object is returned.

=item $s->host

Get/set the default value of the C<Host> header to send. The $host must not be set to an empty string (or C<undef>) for HTTP/1.1.

=item $s->keep_alive

Get/set the I<keep-alive> value. If this value is TRUE then the request will be sent with headers indicating that the server should try to keep the connection open so that multiple requests can be sent.

The actual headers set will depend on the value of the C<http_version> and C<peer_http_version> attributes.

=item $s->send_te

Get/set the a value indicating if the request will be sent with a "TE" header to indicate the transfer encodings that the server can choose to use. The list of encodings announced as accepted by this client depends on availability of the following modules: C<Compress::Raw::Zlib> for I<deflate>, and C<IO::Compress::Gunzip> for I<gzip>.

=item $s->http_version
Get/set the HTTP version number that this client should announce. This value can only be set to "1.0" or "1.1". The default is "1.1".

=item $s->peer_http_version

Get/set the protocol version number of our peer. This value will initially be "1.0", but will be updated by a successful read_response_headers() method call.

=item $s->max_line_length

Get/set a limit on the length of response line and response header lines. The default is 8192. A value of 0 means no limit.

=item $s->max_header_length

Get/set a limit on the number of header lines that a response can have. The default is 128. A value of 0 means no limit.

=item $s->format_request($method, $uri, %headers, [$content])

Format a request message and return it as a string. If the headers do not include a C<Host> header, then a header is inserted with the value of the C<host> attribute. Headers like C<Connection> and C<Keep-Alive> might also be added depending on the status of the C<keep_alive> attribute.

If $content is given (and it is non-empty), then a C<Content-Length> header is automatically added unless it was already present.

=item $s->write_request($method, $uri, %headers, [$content])

Format and send a request message. Arguments are the same as for format_request(). Returns true if successful.

=item $s->format_chunk( $data )

Returns the string to be written for the given chunk of data.

=item $s->write_chunk($data)

Will write a new chunk of request entity body data. This method should only be used if the C<Transfer-Encoding> header with a value of C<chunked> was sent in the request. Note, writing zero-length data is a no-op. Use the write_chunk_eof() method to signal end of entity body data.
Returns true if successful.

=item $s->format_chunk_eof( %trailers )

Returns the string to be written for signaling EOF when a C<Transfer-Encoding> of C<chunked> is used.

=item $s->write_chunk_eof( %trailers )

Will write eof marker for chunked data and optional trailers. Note that trailers should not really be used unless is was signaled with a C<Trailer> header.

Returns true if successful.

=item ($code, $mess, %headers) = $s->read_response_headers( %opts )

Read response headers from server and return it. The $code is the 3 digit HTTP status code (see L<HTTP::Status>) and $mess is the textual message that came with it. Headers are then returned as key/value pairs. Since key letter casing is not normalized and the same key can even occur multiple times, assigning these values directly to a hash is not wise. Only the $code is returned if this method is called in scalar context.

As a side effect this method updates the 'peer_http_version' attribute.

Options might be passed in as key/value pairs. There are currently only two options supported; C<laxed> and C<junk_out>.

The C<laxed> option will make read_response_headers() more forgiving towards servers that have not learned how to speak HTTP properly. The C<laxed> option is a boolean flag, and is enabled by passing in a TRUE value. The C<junk_out> option can be used to capture bad header lines when C<laxed> is enabled. The value should be an array reference. Bad header lines will be pushed onto the array.

The C<laxed> option must be specified in order to communicate with pre-HTTP/1.0 servers that don't describe the response outcome or the data they send back with a header block. For these servers peer_http_version is set to "0.9" and this method returns (200, "Assumed OK").

The method will raise an exception (die) if the server does not speak proper HTTP or if the C<max_line_length> or C<max_header_length> limits are reached. If the C<laxed> option is turned on and C<max_line_length> and C<max_header_length> checks are turned off,
then no exception will be raised and this method will always return a response code.

=item $n = $s->read_entity_body($buf, $size);

Reads chunks of the entity body content. Basically the same interface as for read() and sysread(), but the buffer offset argument is not supported yet. This method should only be called after a successful read_response_headers() call.

The return value will be C<undef> on read errors, 0 on EOF, -1 if no data could be returned this time, otherwise the number of bytes assigned to $buf. The $buf is set to "" when the return value is -1.

You normally want to retry this call if this function returns either -1 or C<undef> with C<$!> as EINTR or EAGAIN (see L<Errno>). EINTR can happen if the application catches signals and EAGAIN can happen if you made the socket non-blocking.

This method will raise exceptions (die) if the server does not speak proper HTTP. This can only happen when reading chunked data.

=item %headers = $s->get_trailers

After read_entity_body() has returned 0 to indicate end of the entity body, you might call this method to pick up any trailers.

=item $s->{_rbuf}

Get/set the read buffer content. The read_response_headers() and read_entity_body() methods use an internal buffer which they will look for data before they actually sysread more from the socket itself. If they read too much, the remaining data will be left in this buffer.

=item $s->{_rbuf_length}

Returns the number of bytes in the read buffer. This should always be the same as:

    length($s->{_rbuf})

but might be more efficient.

=back

=head1 SUBCLASSING

The read_response_headers() and read_entity_body() will invoke the
sysread() method when they need more data. Subclasses might want to override this method to control how reading takes place.

The object itself is a glob. Subclasses should avoid using hash key names prefixed with C<http_> and C<io_>.

=head1 SEE ALSO

L<LWP>, L<IO::Socket::INET>, L<Net::HTTP::NB>

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=head1 NAME

Net::HTTP::NB - Non-blocking HTTP client

cut

=head1 SYNOPSIS

use Net::HTTP::NB;
my $s = Net::HTTP::NB->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/");

use IO::Select;
my $sel = IO::Select->new($s);

use Net::HTTP::NB;
my $s = Net::HTTP::NB->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/");

my $s = Net::HTTP::NB->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/");

READ_HEADER: {
    die "Header timeout" unless $sel->can_read(10);
    my($code, $mess, %h) = $s->read_response_headers;
    redo READ_HEADER unless $code;
}

while (1) {
    die "Body timeout" unless $sel->can_read(10);
    my $buf;
    my $n = $s->read_entity_body($buf, 1024);
    last unless $n;

print $buf;
}

=head1 DESCRIPTION

Same interface as C<Net::HTTP> but it will never try multiple reads when the read_response_headers() or read_entity_body() methods are invoked. This make it possible to multiplex multiple Net::HTTP::NB using select without risk blocking.

If read_response_headers() did not see enough data to complete the headers an empty list is returned.

If read_entity_body() did not see new entity data in its read the value -1 is returned.

=head1 SEE ALSO

L<Net::HTTP>

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Written by: Zoltan Herczeg
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1.3869 nspr 4.13.1-0ubuntu0.14.04.1

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1.3870 libsys-hostname-long-perl 1.4-3

1.3870.1 Available under license:

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=head1 NAME

Sys::Hostname::Long - Try every conceivable way to get full hostname
=head1 SYNOPSIS

use Sys::Hostname::Long;
$host_long = hostname_long;

=head1 DESCRIPTION

How to get the host full name in perl on multiple operating systems (mac, windows, unix* etc)

=head1 DISCUSSION

This is the SECOND release of this code. It has an improved set of tests and improved interfaces - but it is still often failing to get a full host name. This of course is the reason I wrote the module, it is difficult to get full host names accurately on each system. On some systems (eg: Linux) it is dependent on the order of the entries in /etc/hosts.

To make it easier to test I have testall.pl to generate an output list of all methods. Thus even if the logic is incorrect, it may be possible to get the full name.

Attempt via many methods to get the systems full name. The L<Sys::Hostname> class is the best and standard way to get the system hostname. However it is missing the long hostname.

Special thanks to B<David Sundstrom> and B<Greg Bacon> for the original L<Sys::Hostname>

=head1 SUPPORT

This is the original list of platforms tested.

MacOS Macintosh Classic OK
Win32 MS Windows (95,98,nt,2000...)
98 OK
Mac OS X Macintosh 100K
(other darwin) Probably OK (not tested)
Linux Linux UNIX OS OK
Sparc OK
HPUX H.P. Unix 10? Not Tested
Solaris SUN Solaris 7? OK (now)
Irix SGI Irix 5? Not Tested
FreeBSD FreeBSD OK

A new list has now been compiled of all the operating systems so that I can individually keep informaiton on their success.
THIS IS IN NEED OF AN UPDATE AFTER NEXT RELEASE.

=over 4

=item Acorn - Not yet tested
=item AIX - Not yet tested
=item Amiga - Not yet tested
=item Atari - Not yet tested
=item AtheOS - Not yet tested
=item BeOS - Not yet tested
=item BSD - Not yet tested
=item BSD/OS - Not yet tested
=item Compaq - Not yet tested
=item Cygwin - Not yet tested
=item Concurrent - Not yet tested
=item DG/UX - Not yet tested
=item Digital - Not yet tested
=item DEC OSF/1 - Not yet tested
=item Digital UNIX - Not yet tested
=item DYNIX/ptx - Not yet tested
=item EPOC - Not yet tested
=item FreeBSD - Not yet tested
=item Fujitsu-Siemens - Not yet tested
=item Guardian - Not yet tested
=item HP - Not yet tested
=item HP-UX - Not yet tested
=item IBM - Not yet tested

=item IRIX - Not yet tested - 3rd hand information might be ok.

=item Japanese - Not yet tested

=item JPerl - Not yet tested

=item Linux

=over 8

=item Debian - Not yet tested

=item Gentoo - Not yet tested

=item Mandrake - Not yet tested

=item Red Hat - Not yet tested

=item Slackware - Not yet tested

=item SuSe - Not yet tested

=item Yellowdog - Not yet tested

=back

=item LynxOS - Not yet tested

=item Mac OS - Not yet tested

=item Mac OS X - OK 20040315 (v1.1)

=item MachTen - Not yet tested

=item Minix - Not yet tested

=item MinGW - Not yet tested

=item MiNT - Not yet tested

=item MPE/iX - Not yet tested

=item MS-DOS - Not yet tested

=item MVS - Not yet tested
=item NetBSD - Not yet tested

=item NetWare - Not yet tested

=item NEWS-OS - Not yet tested

=item NextStep - Not yet tested

=item Novell - Not yet tested

=item NonStop - Not yet tested

=item NonStop-UX - Not yet tested

=item OpenBSD - Not yet tested

=item ODT - Not yet tested

=item OpenVMS - Not yet tested

=item Open UNIX - Not yet tested

=item OS/2 - Not yet tested

=item OS/390 - Not yet tested

=item OS/400 - Not yet tested

=item OSF/1 - Not yet tested

=item OSR - Not yet tested

=item Plan 9 - Not yet tested

=item Pocket PC - Not yet tested

=item PowerMAX - Not yet tested

=item Psion - Not yet tested

=item QNX

=over 8

=item 4 - Not yet tested

=item 6 (Neutrino) - Not yet tested
- Reliant UNIX - Not yet tested
- RISCOS - Not yet tested
- SCO - Not yet tested
- SGI - Not yet tested
- Symbian - Not yet tested
- Sequent - Not yet tested
- Siemens - Not yet tested
- SINIX - Not yet tested
- Solaris - Not yet tested
- SONY - Not yet tested
- Sun - Not yet tested
- Stratus - Not yet tested
- Tandem - Not yet tested
- Tru64 - Not yet tested
- Ultrix - Not yet tested
- UNIX - Not yet tested
- U/WIN - Not yet tested
- Unixware - Not yet tested
- VMS - Not yet tested
- VOS - Not yet tested
- Windows - Not yet tested
- CE - Not yet tested
=item 3.1 - Not yet tested
=item 95 - Not yet tested
=item 98 - Not yet tested
=item Me - Not yet tested
=item NT - Not yet tested
=item 2000 - Not yet tested
=item XP - Not yet tested
=back
=item z/OS - Not yet tested
=back
=head1 KNOWN LIMITATIONS
=head2 Unix

Most unix systems have trouble working out the fully qualified domain name as it to be configured somewhere in the system correctly. For example in most linux systems (debian, ?) the fully qualified name should be the first entry next to the ip number in /etc/hosts

192.168.0.1 fred.somewhere.specialfred

If it is the other way around, it will fail.

=head2 Mac

=head1 TODO

Contributions

David Dick
Graeme Hart
Piotr Klaban

* Extra code from G
* Dispatch table
* List of all operating systems.
* Fall back 2 - TCP with DNS works ok
* Also can read /etc/defaultdomain file

=head1 SEE ALSO

L<Sys::Hostname>

=head1 AUTHOR

Scott Penrose E<lt>F<scottp@dd.com.au>E<gt>

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=cut

Found in path(s):
* /opt/cola/permits/1138401070_1614282228.47/0/libsys-hostname-long-perl-1-4-orig-1-tar-gz/Sys-Hostname-Long-1.4/lib/Sys/Hostname/Long.pm

1.3871 ncurses 5.9+20140913-1
1.3871.1 Available under license:
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.3872 perl-locale-maketext 1.23-3.el7
1.3872.1 Available under license :

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# This document contains text in Perl "POD" format.
# Use a POD viewer like perldoc or perlman to render it.

=head1 NAME

Locale::Maketext::TPJ13 -- article about software localization

=head1 SYNOPSIS

# This an article, not a module.

=head1 DESCRIPTION

The following article by Sean M. Burke and Jordan Lachler
first appeared in I<The Perl Journal> #13
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Localization and Perl: gettext breaks, Maketext fixes

by Sean M. Burke and Jordan Lachler

This article points out cases where gettext (a common system for localizing software interfaces -- i.e., making them work in the user's language of choice) fails because of basic differences between human languages. This article then describes Maketext, a new system capable of correctly treating these differences.

A Localization Horror Story: It Could Happen To You

"There are a number of languages spoken by human beings in this world."

-- Harald Tveit Alvestrand, in RFC 1766, "Tags for the Identification of Languages"

Imagine that your task for the day is to localize a piece of software -- and luckily for you, the only output the program emits is two messages, like this:

I scanned 12 directories.

Your query matched 10 files in 4 directories.

So how hard could that be? You look at the code that produces the first item, and it reads:

```perl
printf("I scanned %g directories.",
   $directory_count);
```

You think about that, and realize that it doesn't even work right for English, as it can produce this output:

I scanned 1 directories.

So you rewrite it to read:

```perl
printf("I scanned %g %s.",
   $directory_count,
   $directory_count == 1 ? "directory" : "directories",
);
```
...which does the Right Thing. (In case you don't recall, "%g" is for locale-specific number interpolation, and "%s" is for string interpolation.)

But you still have to localize it for all the languages you're producing this software for, so you pull Locale::gettext off of CPAN so you can access the C<gettext> C functions you've heard are standard for localization tasks.

And you write:

```perl
printf(gettext("I scanned %g %s."),
    $dir_scan_count,
    $dir_scan_count == 1 ?
        gettext("directory") : gettext("directories"),
);
```

But you then read in the gettext manual (Drepper, Miller, and Pinard 1995) that this is not a good idea, since how a single word like "directory" or "directories" is translated may depend on context -- and this is true, since in a case language like German or Russian, you'd may need these words with a different case ending in the first instance (where the word is the object of a verb) than in the second instance, which you haven't even gotten to yet (where the word is the object of a preposition, "in %g directories") -- assuming these keep the same syntax when translated into those languages.

So, on the advice of the gettext manual, you rewrite:

```perl
printf( $dir_scan_count == 1 ?
    gettext("I scanned %g directory.") : gettext("I scanned %g directories."),
    $dir_scan_count );
```

So, you email your various translators (the boss decides that the languages du jour are Chinese, Arabic, Russian, and Italian, so you have one translator for each), asking for translations for "I scanned %g directory." and "I scanned %g directories.". When they reply, you'll put that in the lexicons for gettext to use when it localizes your software, so that when the user is running under the "zh" (Chinese) locale, gettext("I scanned %g directory.") will return the appropriate Chinese text, with a "%g" in there where printf can then interpolate $dir_scan.

Your Chinese translator emails right back -- he says both of these phrases translate to the same thing in Chinese, because, in linguistic jargon, Chinese "doesn't have number as a grammatical category" --
whereas English does. That is, English has grammatical rules that refer to "number", i.e., whether something is grammatically singular or plural; and one of these rules is the one that forces nouns to take a plural suffix (generally "s") when in a plural context, as they are when they follow a number other than "one" (including, oddly enough, "zero"). Chinese has no such rules, and so has just the one phrase where English has two. But, no problem, you can have this one Chinese phrase appear as the translation for the two English phrases in the "zh" gettext lexicon for your program.

Emboldened by this, you dive into the second phrase that your software needs to output: "Your query matched 10 files in 4 directories.". You notice that if you want to treat phrases as indivisible, as the gettext manual wisely advises, you need four cases now, instead of two, to cover the permutations of singular and plural on the two items, $dir_count and $file_count. So you try this:

```c
printf( $file_count == 1 ?
    ( $directory_count == 1 ?
        gettext("Your query matched %g file in %g directory.") :
        gettext("Your query matched %g file in %g directories.") ) :
    ( $directory_count == 1 ?
        gettext("Your query matched %g files in %g directory.") :
        gettext("Your query matched %g files in %g directories.") ),
    $file_count, $directory_count,
    );
```

(The case of "1 file in 2 [or more] directories" could, I suppose, occur in the case of symlinking or something of the sort.)

It occurs to you that this is not the prettiest code you've ever written, but this seems the way to go. You mail off to the translators asking for translations for these four cases. The Chinese guy replies with the one phrase that these all translate to in Chinese, and that phrase has two "%g"s in it, as it should -- but there's a problem. He translates it word-for-word back: "In %g directories contains %g files match your query." The %g slots are in an order reverse to what they are in English. You wonder how you'll get gettext to handle that.

But you put it aside for the moment, and optimistically hope that the other translators won't have this problem, and that their languages will be better behaved -- i.e., that they will be just like English.

But the Arabic translator is the next to write back. First off, your code for "I scanned %g directory." or "I scanned %g directories." assumes there's only singular or plural. But, to use linguistic jargon again, Arabic has grammatical number, like English (but unlike
Chinese), but it's a three-term category: singular, dual, and plural. In other words, the way you say "directory" depends on whether there's one directory, or I<two> of them, or I<more than two> of them. Your test of C<$directory == 1> no longer does the job. And it means that where English's grammatical category of number necessitates only the two permutations of the first sentence based on "directory [singular]" and "directories [plural]", Arabic has three -- and, worse, in the second sentence ("Your query matched %g file in %g directory."), where English has four, Arabic has nine. You sense an unwelcome, exponential trend taking shape.

Your Italian translator emails you back and says that "I searched 0 directories" (a possible English output of your program) is stilted, and if you think that's fine English, that's your problem, but that I<just will not do> in the language of Dante. He insists that where $directory_count is 0, your program should produce the Italian text for "I didn't scan I<any> directories.". And ditto for "I didn't match any files in any directories", although he says the last part about "in any directories" should probably just be left off.

You wonder how you'll get gettext to handle this; to accommodate the ways Arabic, Chinese, and Italian deal with numbers in just these few very simple phrases, you need to write code that will ask gettext for different queries depending on whether the numerical values in question are 1, 2, more than 2, or in some cases 0, and you still haven't figured out the problem with the different word order in Chinese.

Then your Russian translator calls on the phone, to I<personally> tell you the bad news about how really unpleasant your life is about to become:

Russian, like German or Latin, is an inflectional language; that is, nouns and adjectives have to take endings that depend on their case (i.e., nominative, accusative, genitive, etc...) -- which is roughly a matter of what role they have in syntax of the sentence -- as well as on the grammatical gender (i.e., masculine, feminine, neuter) and number (i.e., singular or plural) of the noun, as well as on the declension class of the noun. But unlike with most other inflected languages, putting a number-phrase (like "ten" or "forty-three", or their Arabic numeral equivalents) in front of noun in Russian can change the case and number that noun is, and therefore the endings you have to put on it.

He elaborates: In "I scanned %g directories", you'd I<expect> "directories" to be in the accusative case (since it is the direct object in the sentence) and the plural number, except where $directory_count is 1, then you'd expect the singular, of course. Just like Latin or German. I<But!> Where $directory_count % 10 is 1 ("%" for modulo, remember), assuming $directory_count is an
integer, and except where $directory_count % 100 is 11, "directories" is forced to become grammatically singular, which means it gets the ending for the accusative singular... You begin to visualize the code it'd take to test for the problem so far, and still work for Chinese and Arabic and Italian>, and how many gettext items that'd take, but he keeps going... But where $directory_count % 10 is 2, 3, or 4 (except where $directory_count % 100 is 12, 13, or 14), the word for "directories" is forced to be genitive singular -- which means another ending... The room begins to spin around you, slowly at first... But with integer values, since "directory" is an inanimate noun, when preceded by a number and in the nominative or accusative cases (as it is here, just your luck!), it does stay plural, but it is forced into the genitive case -- yet another ending... And you never hear him get to the part about how you're going to run into similar (but maybe subtly different) problems with other Slavic languages like Polish, because the floor comes up to meet you, and you fade into unconsciousness.

The above cautionary tale relates how an attempt at localization can lead from programmer consternation, to program obfuscation, to a need for sedation. But careful evaluation shows that your choice of tools merely needed further consideration.

=head2 The Linguistic View

=over

"It is more complicated than you think."

-- The Eighth Networking Truth, from RFC 1925

=back

The field of Linguistics has expended a great deal of effort over the past century trying to find grammatical patterns which hold across languages; it's been a constant process of people making generalizations that should apply to all languages, only to find out that, all too often, these generalizations fail -- sometimes failing for just a few languages, sometimes whole classes of languages, and sometimes nearly every language in the world except English. Broad statistical trends are evident in what the "average language" is like as far as what its rules can look like, must look like, and cannot look like. But the "average language" is just as unreal a concept as the "average person" -- it runs up against the fact no language (or person) is, in fact, average. The wisdom of past experience leads us to believe that any given language can do whatever it wants, in any order, with appeal to any kind of grammatical
categories wants -- case, number, tense, real or metaphoric characteristics of the things that words refer to, arbitrary or predictable classifications of words based on what endings or prefixes they can take, degree or means of certainty about the truth of statements expressed, and so on, ad infinitum.

Mercifully, most localization tasks are a matter of finding ways to translate whole phrases, generally sentences, where the context is relatively set, and where the only variation in content is in a number being expressed -- as in the example sentences above. Translating specific, fully-formed sentences is, in practice, fairly foolproof -- which is good, because that's what's in the phrasebooks that so many tourists rely on. Now, a given phrase (whether in a phrasebook or in a gettext lexicon) in one language might have a greater or lesser applicability than that phrase's translation into another language -- for example, strictly speaking, in Arabic, the "your" in "Your query matched..." would take a different form depending on whether the user is male or female; so the Arabic translation "your[feminine] query" is applicable in fewer cases than the corresponding English phrase, which doesn't distinguish the user's gender. (In practice, it's not feasible to have a program know the user's gender, so the masculine "you" in Arabic is usually used, by default.)

But in general, such surprises are rare when entire sentences are being translated, especially when the functional context is restricted to that of a computer interacting with a user either to convey a fact or to prompt for a piece of information. So, for purposes of localization, translation by phrase (generally by sentence) is both the simplest and the least problematic.

=head2 Breaking gettext

=over

"It Has To Work."

-- First Networking Truth, RFC 1925

=back

Consider that sentences in a tourist phrasebook are of two types: ones like "How do I get to the marketplace?" that don't have any blanks to fill in, and ones like "How much do these ___ cost?", where there's one or more blanks to fill in (and these are usually linked to a list of words that you can put in that blank: "fish", "potatoes", "tomatoes", etc.) The ones with no blanks are no problem, but the fill-in-the-blank ones may not be really straightforward. If it's a
Swahili phrasebook, for example, the authors probably didn't bother to
tell you the complicated ways that the verb "cost" changes its
inflectional prefix depending on the noun you're putting in the blank.
The trader in the marketplace will still understand what you're saying if
you say "how much do these potatoes cost?" with the wrong
inflectional prefix on "cost". After all, I<you> can't speak proper Swahili,
I<you're> just a tourist. But while tourists can be stupid, computers
are supposed to be smart; the computer should be able to fill in the
blank, and still have the results be grammatical.

In other words, a phrasebook entry takes some values as parameters
(the things that you fill in the blank or blanks), and provides a value
based on these parameters, where the way you get that final value from
the given values can, properly speaking, involve an arbitrarily
complex series of operations. (In the case of Chinese, it'd be not at
all complex, at least in cases like the examples at the beginning of
this article; whereas in the case of Russian it'd be a rather complex
series of operations. And in some languages, the
complexity could be spread around differently: while the act of
putting a number-expression in front of a noun phrase might not be
complex by itself, it may change how you have to, for example, inflect
a verb elsewhere in the sentence. This is what in syntax is called
"long-distance dependencies".)

This talk of parameters and arbitrary complexity is just another way
to say that an entry in a phrasebook is what in a programming language
would be called a "function". Just so you don't miss it, this is the
crux of this article: I<A phrase is a function; a phrasebook is a
bunch of functions.>

The reason that using gettext runs into walls (as in the above
second-person horror story) is that you're trying to use a string (or
worse, a choice among a bunch of strings) to do what you really need a
function for -- which is futile. Preforming (s)printf interpolation
on the strings which you get back from gettext does allow you to do I<some>
common things passably well... sometimes... sort of; but, to paraphrase
what some people say about C<sh> script programming, "it fools you
into thinking you can use it for real things, but you can't, and you
don't discover this until you've already spent too much time trying,
and by then it's too late."

=head2 Replacing gettext

So, what needs to replace gettext is a system that supports lexicons
of functions instead of lexicons of strings. An entry in a lexicon
from such a system should I<not> look like this:

"J'ai trouv\xE9 %g fichiers dans %g r\xE9pertoires"
but instead like this, bearing in mind that this is just a first stab:

```perl
sub I_found_X1_files_in_X2_directories {
    my( $files, $dirs ) = @_[0,1];
    $files = sprintf("%g %s", $files,
        $files == 1 ? 'fichier' : 'fichiers');
    $dirs = sprintf("%g %s", $dirs,
        $dirs == 1 ? "r\xe9pertoire" : "r\xe9pertoires");
    return "J'ai trouv\xe9 \$files dans \$dirs.;"
}
```

Now, there's no particularly obvious way to store anything but strings in a gettext lexicon; so it looks like we just have to start over and make something better, from scratch. I call my shot at a gettext-replacement system "Maketext", or, in CPAN terms, Locale::Maketext.

When designing Maketext, I chose to plan its main features in terms of "buzzword compliance". And here are the buzzwords:

=head2 Buzzwords: Abstraction and Encapsulation

The complexity of the language you're trying to output a phrase in is entirely abstracted inside (and encapsulated within) the Maketext module for that interface. When you call:

```perl
print $lang->maketext("You have [quant,_1,piece] of new mail.",
    scalar(@messages));
```

you don't know (and in fact can't easily find out) whether this will involve lots of figuring, as in Russian (if $lang is a handle to the Russian module), or relatively little, as in Chinese. That kind of abstraction and encapsulation may encourage other pleasant buzzwords like modularization and stratification, depending on what design decisions you make.

=head2 Buzzword: Isomorphism

"Isomorphism" means "having the same structure or form": in discussions of program design, the word takes on the special, specific meaning that your implementation of a solution to a problem I<has the same structure> as, say, an informal verbal description of the solution, or maybe of the problem itself. Isomorphism is, all things considered, a good thing -- it's what problem-solving (and solution-implementing)
What's wrong with gettext-using code like this...

```c
printf( $file_count == 1 ?
    ( $directory_count == 1 ?
        "Your query matched %g file in %g directory." :
        "Your query matched %g file in %g directories." ) :
    ( $directory_count == 1 ?
        "Your query matched %g files in %g directory." :
        "Your query matched %g files in %g directories." ),
    $file_count, $directory_count,
);
```

is first off that it's not well abstracted -- these ways of testing for grammatical number (as in the expressions like C<foo == 1 ?
singular_form : plural_form>) should be abstracted to each language module, since how you get grammatical number is language-specific.

But second off, it's not isomorphic -- the "solution" (i.e., the phrasebook entries) for Chinese maps from these four English phrases to the one Chinese phrase that fits for all of them. In other words, the informal solution would be "The way to say what you want in Chinese is with the one phrase 'For your question, in Y directories you would find X files'" -- and so the implemented solution should be, isomorphically, just a straightforward way to spit out that one phrase, with numerals properly interpolated. It shouldn't have to map from the complexity of other languages to the simplicity of this one.

=head2 Buzzword: Inheritance

There's a great deal of reuse possible for sharing of phrases between modules for related dialects, or for sharing of auxiliary functions between related languages. (By "auxiliary functions", I mean functions that don't produce phrase-text, but which, say, return an answer to "does this number require a plural noun after it"?’. Such auxiliary functions would be used in the internal logic of functions that actually do produce phrase-text.)

In the case of sharing phrases, consider that you have an interface already localized for American English (probably by having been written with that as the native locale, but that's incidental). Localizing it for UK English should, in practical terms, be just a matter of running it past a British person with the instructions to indicate what few phrases would benefit from a change in spelling or possibly minor rewording. In that case, you should be able to put in the UK English localization module I<only> those phrases that are UK-specific, and for all the rest, I<inherit> from the American
As to sharing of auxiliary functions, consider the problem of Russian numbers from the beginning of this article; obviously, you'd want to write only once the hairy code that, given a numeric value, would return some specification of which case and number a given quantified noun should use. But suppose that you discover, while localizing an interface for, say, Ukranian (a Slavic language related to Russian, spoken by several million people, many of whom would be relieved to find that your Web site's or software's interface is available in their language), that the rules in Ukranian are the same as in Russian for quantification, and probably for many other grammatical functions. While there may well be no phrases in common between Russian and Ukranian, you could still choose to have the Ukranian module inherit from the Russian module, just for the sake of inheriting all the various grammatical methods. Or, probably better organizationally, you could move those functions to a module called C<_E_Slavic> or something, which Russian and Ukrainian could inherit useful functions from, but which would (presumably) provide no lexicon.

=head2 Buzzword: Concision

Okay, concision isn't a buzzword. But it should be, so I decree that as a new buzzword, "concision" means that simple common things should be expressible in very few lines (or maybe even just a few characters) of code -- call it a special case of "making simple things easy and hard things possible", and see also the role it played in the MIDI::Simple language, discussed elsewhere in this issue [TPJ#13].

Consider our first stab at an entry in our "phrasebook of functions":

```perl
sub I_found_X1_files_in_X2_directories {  
    my( $files, $dirs ) = @_[0,1];  
    $files = sprintf("%g %s", $files,  
        $files == 1 ? 'fichier' : 'fichiers');  
    $dirs = sprintf("%g %s", $dirs,  
        $dirs == 1 ? "r\xE9pertoire" : "r\xE9pertoires");  
    return "J'ai trouv\xE9 $files dans $dirs.";
}  
```

You may sense that a lexicon (to use a non-committal catch-all term for a collection of things you know how to say, regardless of whether they're phrases or words) consisting of functions I<expressed> as above would make for rather long-winded and repetitive code -- even if you wisely
rewrote this to have quantification (as we call adding a number expression to a noun phrase) be a function called like:

```perl
sub I_found_X1_files_in_X2_directories {
    my( $files, $dirs ) = @_[0,1];
    $files = quant($files, "fichier");
    $dirs = quant($dirs, "r\xE9pertoire");
    return "J'ai trouv\xE9 $files dans $dirs.";
}
```

And you may also sense that you do not want to bother your translators with having to write Perl code -- you'd much rather that they spend their very costly time on just translation. And this is to say nothing of the near impossibility of finding a commercial translator who would know even simple Perl.

In a first-hack implementation of Maketext, each language-module’s lexicon looked like this:

```perl
%Lexicon = (  
    "I found %g files in %g directories" 
    => sub { 
        my( $files, $dirs ) = @_[0,1];
        $files = quant($files, "fichier");
        $dirs = quant($dirs, "r\xE9pertoire");
        return "J'ai trouv\xE9 $files dans $dirs.";
    },
    ... and so on with other phrase => sub mappings ...
);
```

but I immediately went looking for some more concise way to basically denote the same phrase-function -- a way that would also serve to concisely denote most phrase-functions in the lexicon for most languages. After much time and even some actual thought, I decided on this system:

* Where a value in a %Lexicon hash is a contentful string instead of an anonymous sub (or, conceivably, a coderef), it would be interpreted
  as a sort of shorthand expression of what the sub does. When accessed
  for the first time in a session, it is parsed, turned into Perl code,
  and then eval'd into an anonymous sub; then that sub replaces the
  original string in that lexicon. (That way, the work of parsing and
  evaling the shorthand form for a given phrase is done no more than
  once per session.)

* Calls to C<maketext> (as Maketext's main function is called) happen
  thru a "language session handle", notionally very much like an IO
  handle, in that you open one at the start of the session, and use it
for "sending signals" to an object in order to have it return the text you want.

So, this:

```
$lang->maketext("You have [quant._1,piece] of new mail.",
               scalar(@messages));
```

basically means this: look in the lexicon for $lang (which may inherit from any number of other lexicons), and find the function that we happen to associate with the string "You have [quant._1,piece] of new mail" (which is, and should be, a functioning "shorthand" for this function in the native locale -- English in this case). If you find such a function, call it with $lang as its first parameter (as if it were a method), and then a copy of scalar(@messages) as its second, and then return that value. If that function was found, but was in string shorthand instead of being a fully specified function, parse it and make it into a function before calling it the first time.

* The shorthand uses code in brackets to indicate method calls that should be performed. A full explanation is not in order here, but a few examples will suffice:

"You have [quant._1,piece] of new mail."

The above code is shorthand for, and will be interpreted as, this:

```
sub {
    my $handle = $_[0];
    my(@params) = @_;
    return join "",
    "You have ",
    $handle->quant(@params[1], 'piece'),
    "of new mail.";
}
```

where "quant" is the name of a method you're using to quantify the noun "piece" with the number $params[0].

A string with no brackety calls, like this:

"Your search expression was malformed."

is somewhat of a degenerate case, and just gets turned into:

```
sub { return "Your search expression was malformed." }
```
However, not everything you can write in Perl code can be written in the above shorthand system -- not by a long shot. For example, consider the Italian translator from the beginning of this article, who wanted the Italian for "I didn't find any files" as a special case, instead of "I found 0 files". That couldn't be specified (at least not easily or simply) in our shorthand system, and it would have to be written out in full, like this:

```perl
sub {  # pretend the English strings are in Italian
    my($handle, $files, $dirs) = @_[0,1,2];
    return "I didn't find any files" unless $files;
    return join '',
    "I found ",
    $handle->quant($files, 'file'),
    " in ",
    $handle->quant($dirs, 'directory'),
    ";"
}
```

Next to a lexicon full of shorthand code, that sort of sticks out like a sore thumb -- but this is a special case, after all; and at least it's possible, if not as concise as usual.

As to how you'd implement the Russian example from the beginning of the article, well, There's More Than One Way To Do It, but it could be something like this (using English words for Russian, just so you know what's going on):

"I [quant,_1,directory,accusative] scanned."

This shifts the burden of complexity off to the quant method. That method's parameters are: the numeric value it's going to use to quantify something; the Russian word it's going to quantify; and the parameter "accusative", which you're using to mean that this sentence's syntax wants a noun in the accusative case there, although that quantification method may have to overrule, for grammatical reasons you may recall from the beginning of this article.

Now, the Russian quant method here is responsible not only for implementing the strange logic necessary for figuring out how Russian number-phrases impose case and number on their noun-phrases, but also for inflecting the Russian word for "directory". How that inflection is to be carried out is no small issue, and among the solutions I've seen, some (like variations on a simple lookup in a hash where all possible forms are provided for all necessary words) are straightforward but I can become cumbersome when you need to inflect more than a few dozen words; and other solutions (like using algorithms to model the inflections, storing only root forms and
irregularities) I can involve more overhead than is justifiable for all but the largest lexicons.

Mercifully, this design decision becomes crucial only in the hairiest of inflected languages, of which Russian is by no means the worst case scenario, but is worse than most. Most languages have simpler inflection systems; for example, in English or Swahili, there are generally no more than two possible inflected forms for a given noun ("error/errors"; "kosa/makosa"), and the rules for producing these forms are fairly simple -- or at least, simple rules can be formulated that work for most words, and you can then treat the exceptions as just "irregular", at least relative to your ad hoc rules. A simpler inflection system (simpler rules, fewer forms) means that design decisions are less crucial to maintaining sanity, whereas the same decisions could incur overhead-versus-scalability problems in languages like Russian. It may also be likely that code (possibly in Perl, as with Lingua::EN::Inflect, for English nouns) has already been written for the language in question, whether simple or complex.

Moreover, a third possibility may even be simpler than anything discussed above: "Just require that all possible (or at least applicable) forms be provided in the call to the given language's quant method, as in:"

"I found [quant,_1,file,files]."

That way, quant just has to chose which form it needs, without having to look up or generate anything. While possibly not optimal for Russian, this should work well for most other languages, where quantification is not as complicated an operation.

=head2 The Devil in the Details

There's plenty more to Maketext than described above -- for example, there's the details of how language tags ("en-US", "i-pwn", "fi", etc.) or locale IDs ("en_US") interact with actual module naming ("BogoQuery/Locale/en_us.pm"), and what magic can ensue; there's the details of how to record (and possibly negotiate) what character encoding Maketext will return text in (UTF8? Latin-1? KOI8?). There's the interesting fact that Maketext is for localization, but nowhere actually has a "C use locale;" anywhere in it. For the curious, there's the somewhat frightening details of how I actually implement something like data inheritance so that searches across modules' %Lexicon hashes can parallel how Perl implements method inheritance.

And, most importantly, there's all the practical details of how to
Actually go about deriving from Maketext so you can use it for your interfaces, and the various tools and conventions for starting out and maintaining individual language modules.

That is all covered in the documentation for Locale::Maketext and the modules that come with it, available in CPAN. After having read this article, which covers the why's of Maketext, the documentation, which covers the how's of it, should be quite straightforward.

=head2 The Proof in the Pudding: Localizing Web Sites

Maketext and gettext have a notable difference: gettext is in C, accessible thru C library calls, whereas Maketext is in Perl, and really can't work without a Perl interpreter (although I suppose something like it could be written for C). Accidents of history (and not necessarily lucky ones) have made C++ the most common language for the implementation of applications like word processors, Web browsers, and even many in-house applications like custom query systems. Current conditions make it somewhat unlikely that the next one of any of these kinds of applications will be written in Perl, albeit clearly more for reasons of custom and inertia than out of consideration of what is the right tool for the job.

However, other accidents of history have made Perl a well-accepted language for design of server-side programs (generally in CGI form) for Web site interfaces. Localization of static pages in Web sites is trivial, feasible either with simple language-negotiation features in servers like Apache, or with some kind of server-side inclusions of language-appropriate text into layout templates. However, I think that the localization of Perl-based search systems (or other kinds of dynamic content) in Web sites, be they public or access-restricted, is where Maketext will see the greatest use.

I presume that it would be only the exceptional Web site that gets localized for English and Chinese and Italian and Arabic and Russian, to recall the languages from the beginning of this article -- to say nothing of German, Spanish, French, Japanese, Finnish, and Hindi, to name a few languages that benefit from large numbers of programmers or Web viewers or both.

However, the ever-increasing internationalization of the Web (whether measured in terms of amount of content, of numbers of content writers or programmers, or of size of content audiences) makes it increasingly likely that the interface to the average Web-based dynamic content service will be localized for two or maybe three languages. It is my hope that Maketext will make that task as simple as possible, and will remove previous barriers to localization for languages dissimilar to English.
Sean M. Burke (sburke@cpan.org) has a Master's in linguistics from Northwestern University; he specializes in language technology. Jordan Lachler (lachler@unm.edu) is a PhD student in the Department of Linguistics at the University of New Mexico; he specializes in morphology and pedagogy of North American native languages.

=head2 References


Drepper, Ulrich, Peter Miller, and Françoise Pinard. 1995-2001. GNU gettext. Available in C<ftp://prep.ai.mit.edu/pub/gnu/>, with extensive docs in the distribution tarball. [Since I wrote this article in 1998, I now see that the gettext docs are now trying more to come to terms with plurality. Whether useful conclusions have come from it is another question altogether. -- SMB, May 2001]


=cut

#End

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1129937642_1612406884.68/0/perl-Locale-Maketext-1.23-3.el7-1.src.rpm-cosi-expand-archive-dIMgtreQ/perl-Locale-Maketext.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'framework for localization'
author:
- unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Locale-Maketext
no_index:
directory:
  - t
  - inc
requires:
  I18N::LangTags: 0.31
  I18N::LangTags::Detect: 0
  Test::More: 0
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/dist/Locale-Maketext
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
version: 1.23

Found in path(s):
No license file was found, but licenses were detected in source scan.

# Time-stamp: "2004-01-11 18:35:34 AST"

=head1 NAME

Locale::Maketext - framework for localization

=head1 SYNOPSIS

package MyProgram;
use strict;
use MyProgram::L10N;
# ...which inherits from Locale::Maketext
my $lh = MyProgram::L10N->get_handle() || die "What language?";
...
# And then any messages your program emits, like:
warn $lh->maketext( "Can't open file \[\_1\]: \[\_2\]\n", $f, $! );
...
=head1 DESCRIPTION

It is a common feature of applications (whether run directly, or via the Web) for them to be "localized" -- i.e., for them to present an English interface to an English-speaker, a German interface to a German-speaker, and so on for all languages it's programmed with. Locale::Maketext is a framework for software localization; it provides you with the tools for organizing and accessing the bits of text and text-processing code that you need for producing localized applications.

In order to make sense of Maketext and how all its components fit together, you should probably go read L<Locale::Maketext::TPJ13|Locale::Maketext::TPJ13>, and I<then> read the following documentation.

You may also want to read over the source for C<File::Findgrep> and its constituent modules -- they are a complete (if small) example application that uses Maketext.

=head1 QUICK OVERVIEW

The basic design of Locale::Maketext is object-oriented, and Locale::Maketext is an abstract base class, from which you derive a "project class". The project class (with a name like "TkBocciBall::Localize", which you then use in your module) is in turn the base class for all the "language classes" for your project (with names "TkBocciBall::Localize::it", "TkBocciBall::Localize::en", "TkBocciBall::Localize::fr", etc.).

A language class is a class containing a lexicon of phrases as class data, and possibly also some methods that are of use in interpreting phrases in the lexicon, or otherwise dealing with text in that language.

An object belonging to a language class is called a "language handle"; it's typically a flyweight object.
The normal course of action is to call:

```perl
use TkBocciBall::Localize;  # the localization project class
$lh = TkBocciBall::Localize->get_handle();
# Depending on the user's locale, etc., this will
# make a language handle from among the classes available,
# and any defaults that you declare.
die "Couldn't make a language handle??" unless $lh;
```

From then on, you use the `maketext` function to access entries in whatever lexicon(s) belong to the language handle you got. So, this:

```perl
print $lh->maketext("You won!"), "\n";
```

...emits the right text for this language. If the object in `&$lh` belongs to class "TkBocciBall::Localize::fr" and `%TkBocciBall::Localize::fr::Lexicon` contains `("You won!" =E<gt> "Tu as gagnE<eacute>!!")`, then the above code happily tells the user "Tu as gagnE<eacute>!!".

=head1 METHODS

Locale::Maketext offers a variety of methods, which fall into three categories:

=over

=item *

Methods to do with constructing language handles.

=item *

C`<maketext>` and other methods to do with accessing `%Lexicon` data for a given language handle.

=item *

Methods that you may find it handy to use, from routines of yours that you put in `%Lexicon` entries.

=back

These are covered in the following section.

=head2 Construction Methods
These are to do with constructing a language handle:

=item *

$ih = YourProjClass->get_handle( ...langtags... ) || die "lg-handle?";

This tries loading classes based on the language-tags you give (like C<("en-US", "sk", "kon", "es-MX", "ja", "i-klingon")>, and for the first class that succeeds, returns YourProjClass::I<language>->new().

If it runs thru the entire given list of language-tags, and finds no classes for those exact terms, it then tries "superordinate" language classes. So if no "en-US" class (i.e., YourProjClass::en_us) was found, nor classes for anything else in that list, we then try its superordinate, "en" (i.e., YourProjClass::en), and so on thru the other language-tags in the given list: "es".
(The other language-tags in our example list: happen to have no superordinates.)

If none of those language-tags leads to loadable classes, we then try classes derived from YourProjClass->fallback_languages() and then if nothing comes of that, we use classes named by YourProjClass->fallback_language_classes(). Then in the (probably quite unlikely) event that that fails, we just return undef.

=item *

$ih = YourProjClass->get_handleB<()> || die "lg-handle?";

When C<get_handle> is called with an empty parameter list, magic happens:

If C<get_handle> senses that it’s running in program that was invoked as a CGI, then it tries to get language-tags out of the environment variable "HTTP_ACCEPT_LANGUAGE", and it pretends that those were the languages passed as parameters to C<get_handle>.

Otherwise (i.e., if not a CGI), this tries various OS-specific ways to get the language-tags for the current locale/language, and then pretends that those were the value(s) passed to C<get_handle>.

Currently this OS-specific stuff consists of looking in the environment variables "LANG" and "LANGUAGE"; and on MSWin machines (where those variables are typically unused), this also tries using the module Win32::Locale to get a language-tag for whatever language/locale is currently selected in the "Regional Settings" (or "International") Control Panel. I welcome further
suggestions for making this do the Right Thing under other operating systems that support localization.

If you're using localization in an application that keeps a configuration file, you might consider something like this in your project class:

```perl
sub get_handle_via_config {
    my $class = $_[0];
    my $chosen_language = $Config_settings{'language'};
    my $lh;
    if($chosen_language) {
        $lh = $class->get_handle($chosen_language)
        || die "No language handle for \"$chosen_language\" or the like";
    } else {
        # Config file missing, maybe?
        $lh = $class->get_handle()
        || die "Can't get a language handle";
    }
    return $ lh;
}
```

```perl
$lh = YourProjClass::langname->new();
```

This constructs a language handle. You usually B<don't> call this directly, but instead let C<get_handle> find a language class to C<u se> and to then call ->new on.

```perl
$lh->init();
```

This is called by ->new to initialize newly-constructed language handles. If you define an init method in your class, remember that it's usually considered a good idea to call $lh->SUPER::init in it (presumably at the beginning), so that all classes get a chance to initialize a new object however they see fit.

```perl
YourProjClass->fallback_languages()
```

C<get_handle> appends the return value of this to the end of whatever list of languages you pass C<get_handle>. Unless you override this method, your project class will inherit Locale::Maketext's C<fallback_languages>, which
currently returns C<('i-default', 'en', 'en-US')>.
("i-default" is defined in RFC 2277).

This method (by having it return the name
of a language-tag that has an existing language class)
can be used for making sure that
C<get_handle> will always manage to construct a language
handle (assuming your language classes are in an appropriate
@INC directory). Or you can use the next method:

=item *
YourProjClass->fallback_language_classes()

C<get_handle> appends the return value of this to the end
of the list of classes it will try using. Unless
you override this method, your project class
will inherit Locale::Maketext's C<fallback_language_classes>,
which currently returns an empty list, C<>()
By setting this to some value (namely, the name of a loadable
language class), you can be sure that
C<get_handle> will always manage to construct a language
handle.

=back

=head2 The "maketext" Method

This is the most important method in Locale::Maketext:

$text = $lh->maketext(I<key>, ...parameters for this phrase...);

This looks in the %Lexicon of the language handle
$lh and all its superclasses, looking
for an entry whose key is the string I<key>. Assuming such
an entry is found, various things then happen, depending on the
value found:

If the value is a scalarref, the scalar is dereferenced and returned
(and any parameters are ignored).

If the value is a coderef, we return &$value($lh, ...parameters...).

If the value is a string that I<does't> look like it's in Bracket Notation,
we return it (after replacing it with a scalarref, in its %Lexicon).

If the value I<does> look like it's in Bracket Notation, then we compile
it into a sub, replace the string in the %Lexicon with the new coderef,
and then we return &new_sub($lh, ...parameters...).

Bracket Notation is discussed in a later section. Note that trying to compile a string into Bracket Notation can throw an exception if the string is not syntactically valid (say, by not balancing brackets right.)

Also, calling &coderef($lh, ...parameters...) can throw any sort of exception (if, say, code in that sub tries to divide by zero). But a very common exception occurs when you have Bracket Notation text that says to call a method "foo", but there is no such method. (E.g., "You have [quaB<tn>$_1.ball]." will throw an exception on trying to call $lh->quaB<tn>($_[1],"ball") -- you presumably meant "quant"). C<maketext> catches these exceptions, but only to make the error message more readable, at which point it rethrows the exception.

An exception I<may> be thrown if I<key> is not found in any of $lh's %Lexicon hashes. What happens if a key is not found, is discussed in a later section, "Controlling Lookup Failure".

Note that you might find it useful in some cases to override the C<maketext> method with an "after method", if you want to translate encodings, or even scripts:

package YrProj::zh_cn; # Chinese with PRC-style glyphs
use base ('YrProj::zh_tw'); # Taiwan-style
sub maketext {
    my $self = shift(@_);
    my $value = $self->maketext(@_);
    return Chineeze::taiwan2mainland($value);
}

Or you may want to override it with something that traps any exceptions, if that's critical to your program:

sub maketext {
    my($lh, @stuff) = @_;  
    my $out;
    eval { $out = $lh->SUPER::maketext(@stuff) };
    return $out unless $@;
    ...
}

Other than those two situations, I don't imagine that it's useful to override the C<maketext> method. (If you run into a situation where it is useful, I'd be interested in hearing about it.)
These two methods are discussed in the section "Controlling Lookup Failure".

=head2 Utility Methods

These are methods that you may find it handy to use, generally from %Lexicon routines of yours (whether expressed as Bracket Notation or not).

=item $language->quant($number, $singular)
=item $language->quant($number, $singular, $plural)
=item $language->quant($number, $singular, $plural, $negative)

This is generally meant to be called from inside Bracket Notation (which is discussed later), as in

"Your search matched [quant,_1,document]!"

It's for I<quantifying> a noun (i.e., saying how much of it there is, while giving the correct form of it). The behavior of this method is handy for English and a few other Western European languages, and you should override it for languages where it's not suitable. You can feel free to read the source, but the current implementation is basically as this pseudocode describes:

```perl
if $number is 0 and there's a $negative,
    return $negative;
elsif $number is 1,
    return "1 $singular";
elsif there's a $plural,
    return "$number $plural";
else
    return "$number " . $singular . "s;"
# ...
```
So for English (with Bracket Notation)
C<"...[quant._1,file]..."> is fine (for 0 it returns "0 files",
for 1 it returns "1 file", and for more it returns "2 files", etc.)

But for "directory", you'd want C<"[quant._1,directory,directories]"> so that our elementary C<quant> method doesn't think that the
plural of "directory" is "directorys". And you might find that the
output may sound better if you specify a negative form, as in:

"[quant._1,file,files,No files] matched your query.
"

Remember to keep in mind verb agreement (or adjectives too, in
other languages), as in:

"[quant._1,document] were matched.
"

Because if _1 is one, you get "1 document B<were> matched".
An acceptable hack here is to do something like this:

"[quant._1,document was, documents were] matched.
"

=item $language->numf($number)

This returns the given number formatted nicely according to
this language's conventions. Maketext's default method is
mostly to just take the normal string form of the number
(applying sprintf "%G" for only very large numbers), and then
to add commas as necessary. (Except that
we apply C<tr/,./,,/> if $language->{'numf_comma'} is true;
that's a bit of a hack that's useful for languages that express
two million as "2,000.000" and not as "2,000,000").

If you want anything fancier, consider overriding this with something
that uses L<Number::Format[Number::Format], or does something else
entirely.

Note that numf is called by quant for stringifying all quantifying
numbers.

=item $language->numerate($number, $singular, $plural, $negative)

This returns the given noun form which is appropriate for the quantity
C<$number> according to this language's conventions. C<numerate> is
used internally by C<quant> to quantify nouns. Use it directly --
usually from bracket notation -- to avoid C<quant>'s implicit call to
C<numf> and output of a numeric quantity.
This is just a wrapper around Perl's normal `sprintf` function. It's provided so that you can use "sprintf" in Bracket Notation:

"Couldn't access datanode [sprintf,%10x=\[%s~\]%._1,%._2]\n"

returning...

    Couldn't access datanode Stuff=[thangamabob]!

Currently this just takes the last bit of `ref($language)`, turns underscores to dashes, and returns it. So if $language is an object of class Hee::HOO::Haw::en_us, $language->language_tag() returns "en-us". (Yes, the usual representation for that language tag is "en-US", but case is I<never> considered meaningful in language-tag comparison.)

You may override this as you like; Maketext doesn't use it for anything.

Currently this isn't used for anything, but it's provided (with default value of `C<ref($language) && $language->encoding()>`) or "iso-8859-1") as a sort of suggestion that it may be useful/necessary to associate encodings with your language handles (whether on a per-class or even per-handle basis.)

B<Remember: Don't be afraid to read the Maketext source if there's any point on which this documentation is unclear.>  This documentation is vastly longer than the module source itself.
These are Locale::Maketext's assumptions about the class hierarchy formed by all your language classes:

You must have a project base class, which you load, and which you then use as the first argument in the call to YourProjClass->get_handle(...). It should derive (whether directly or indirectly) from Locale::Maketext. It doesn't matter how you name this class, although assuming this is the localization component of your Super Mega Program, good names for your project class might be SuperMegaProgram::Localization, SuperMegaProgram::L10N, SuperMegaProgram::I18N, SuperMegaProgram::International, or even SuperMegaProgram::Languages or SuperMegaProgram::Messages.

Language classes are what YourProjClass->get_handle will try to load. It will look for them by taking each language-tag (skipping it if it doesn't look like a language-tag or locale-tag!), turning it to all lowercase, turning dashes to underscores, and appending it to YourProjClass . "::". So this:

```perl
$lh = YourProjClass->get_handle(  
  'en-US', 'fr', 'kon', 'i-klingon', 'i-klingon-romanized'
);
```

will try loading the classes YourProjClass::en_us (note lowercase!), YourProjClass::fr, YourProjClass::kon, YourProjClass::i_klingon and YourProjClass::i_klingon_romanized. (And it'll stop at the first one that actually loads.)

I assume that each language class derives (directly or indirectly) from your project class, and also defines its @ISA, its %Lexicon,
or both. But I anticipate no dire consequences if these assumptions do not hold.

Language classes may derive from other language classes (although they should have "use I<Thatclassname>" or "use base qw(I<...classes...>)"). They may derive from the project class. They may derive from some other class altogether. Or via multiple inheritance, it may derive from any mixture of these.

I foresee no problems with having multiple inheritance in your hierarchy of language classes. (As usual, however, Perl will complain bitterly if you have a cycle in the hierarchy: i.e., if any class is its own ancestor.)

ENTRIES IN EACH LEXICON

A typical %Lexicon entry is meant to signify a phrase, taking some number (0 or more) of parameters. An entry is meant to be accessed by via a string I<key> in $lh->maketext(I<key>, ...parameters...), which should return a string that is generally meant for be used for "output" to the user -- regardless of whether this actually means printing to STDOUT, writing to a file, or putting into a GUI widget.

While the key must be a string value (since that's a basic restriction that Perl places on hash keys), the value in the lexicon can currently be of several types: a defined scalar, scalarref, or coderef. The use of these is explained above, in the section 'The "maketext" Method', and Bracket Notation for strings is discussed in the next section.

While you can use arbitrary unique IDs for lexicon keys (like "_min_larger_max_error"), it is often useful for if an entry's key is itself a valid value, like this example error message:

"Minimum (\[1\]) is larger than maximum (\[2\])!\n",

Compare this code that uses an arbitrary ID...

die $lh->maketext( "_min_larger_max_error", $min, $max )
if $min > $max;

...to this code that uses a key-as-value:

die $lh->maketext(
   "Minimum ([_1]) is larger than maximum ([_2])!\n",
   $min, $max
) if $min > $max;

The second is, in short, more readable. In particular, it's obvious that the number of parameters you're feeding to that phrase (two) is the number of parameters that it I<wants> to be fed. (Since you see _1 and a _2 being used in the key there.)

Also, once a project is otherwise complete and you start to localize it, you can scrape together all the various keys you use, and pass it to a translator; and then the translator's work will go faster if what he's presented is this:

"Minimum ([_1]) is larger than maximum ([_2])!\n",
=> "", # fill in something here, Jacques!

rather than this more cryptic mess:

"_min_larger_max_error"
=> "", # fill in something here, Jacques

I think that keys as lexicon values makes the completed lexicon entries more readable:

"Minimum ([_1]) is larger than maximum ([_2])!\n",
=> "Le minimum ([_1]) est plus grand que le maximum ([_2])!\n",

Also, having valid values as keys becomes very useful if you set up an _AUTO lexicon. _AUTO lexicons are discussed in a later section.

I almost always use keys that are themselves valid lexicon values. One notable exception is when the value is quite long. For example, to get the screenful of data that a command-line program might return when given an unknown switch, I often just use a brief, self-explanatory key such as "_USAGE_MESSAGE". At that point I then go and immediately to define that lexicon entry in the ProjectClass::L10N::en lexicon (since English is always my "project language"):

'_USAGE_MESSAGE' => <<'EOSTUFF',
...long long message...
and then I can use it as:

g getopt('oDI', \%opts) or die $lh->maketext('_USAGE_MESSAGE');

Incidentally,
note that each class's C<%Lexicon> inherits-and-extends
the lexicons in its superclasses. This is not because these are
special hashes I<per se>, but because you access them via the
C<maketext> method, which looks for entries across all the
C<%Lexicon> hashes in a language class I<and> all its ancestor classes.
(This is because the idea of "class data" isn't directly implemented
in Perl, but is instead left to individual class-systems to implement
as they see fit.)

Note that you may have things stored in a lexicon
besides just phrases for output: for example, if your program
takes input from the keyboard, asking a "(Y/N)" question,
you probably need to know what the equivalent of "Y[es]/N[o]" is
in whatever language. You probably also need to know what
the equivalents of the answers "y" and "n" are. You can
store that information in the lexicon (say, under the keys
"~answer_y" and "~answer_n", and the long forms as
"~answer_yes" and "~answer_no", where "~" is just an ad-hoc
character meant to indicate to programmers/translators that
these are not phrases for output).

Or instead of storing this in the language class's lexicon,
you can (and, in some cases, really should) represent the same bit
of knowledge as code in a method in the language class. (That
leaves a tidy distinction between the lexicon as the things we
know how to I<say>, and the rest of the things in the lexicon class
as things that we know how to I<do>.) Consider
this example of a processor for responses to French "oui/non"
questions:

    sub y_or_n {
       return undef unless defined $_[1] and length $_[1];
       my $answer = lc $_[1];  # smash case
       return 1 if $answer eq 'o' or $answer eq 'oui';
       return 0 if $answer eq 'n' or $answer eq 'non';
       return undef;
    }

...which you'd then call in a construct like this:

    my $response;
until(defined $response) {
    print $lh->maketext("Open the pod bay door (y/n)? ");
    $response = $lh->y_or_n( get_input_from_keyboard_somewhow() );
}
if($response) { $pod_bay_door->open()         }
else          { $pod_bay_door->leave_closed() }

Other data worth storing in a lexicon might be things like filenames for language-targetted resources:

...
"_main_splash_png"
  => "/styles/en_us/main_splash.png",
"_main_splash_imagemap"
  => "/styles/en_us/main_splash.incl",
"_general_graphics_path"
  => "/styles/en_us/",
"_alert_sound"
  => "/styles/en_us/hey_there.wav",
"_forward_icon"
  => "left_arrow.png",
"_backward_icon"
  => "right_arrow.png",
# In some other languages, left equals BACKwards, and right is FOREwards.
...

You might want to do the same thing for expressing key bindings or the like (since hardwiring "q" as the binding for the function that quits a screen/menu/program is useful only if your language happens to associate "q" with "quit")!

=head1 BRACKET NOTATION

Bracket Notation is a crucial feature of Locale::Maketext. I mean Bracket Notation to provide a replacement for the use of sprintf formatting. Everything you do with Bracket Notation could be done with a sub block, but bracket notation is meant to be much more concise.

Bracket Notation is a like a miniature "template" system (in the sense of Text::Template, not in the sense of C++ templates), where normal text is passed thru basically as is, but text in special regions is specially interpreted. In Bracket Notation, you use square brackets ("[...]"), not curly braces ("{...}") to note sections that are specially interpreted.

For example, here all the areas that are taken literally are underlined with a "^", and all the in-bracket special regions are underlined with an X:
"Minimum ([_1]) is larger than maximum ([_2])!n",

When that string is compiled from bracket notation into a real Perl sub, it's basically turned into:

```perl
sub {
    my $lh = $_[0];
    my @params = @_;;
    return join ",",
        "Minimum (",
        ...
    ...
    ") is larger than maximum (",
    ...
    ")!n",
}
```

In other words, text outside bracket groups is turned into string literals. Text in brackets is rather more complex, and currently follows these rules:

=over

=item *

Bracket groups that are empty, or which consist only of whitespace, are ignored. (Examples: "[]", "[   ]", or a [ and a ] with returns and/or tabs and/or spaces between them.

Otherwise, each group is taken to be a comma-separated group of items, and each item is interpreted as follows:

=item *

An item that is "_I<digits>" or "-_I<digits>" is interpreted as $$_[I<value>]. I.e., "_1" becomes with $$[1], and "-_3" is interpreted as $$[-3] (in which case @_ should have at least three elements in it). Note that $$[0] is the language handle, and is typically not named directly.

=item *

An item "-_#" is interpreted to mean "all of @_ except $$[0]". I.e., C<@_[1..$#]> . Note that this is an empty list in the case of calls like $lh->maketext(I<key>) where there are no parameters (except $$[0], the language handle).
=item *

Otherwise, each item is interpreted as a string literal.

=back

The group as a whole is interpreted as follows:

=over

==item *

If the first item in a bracket group looks like a method name, then that group is interpreted like this:

$1h->that_method_name(
   ...rest of items in this group...
 ),

==item *

If the first item in a bracket group is "*", it's taken as shorthand for the so commonly called "quant" method. Similarly, if the first item in a bracket group is "#", it's taken to be shorthand for "numf".

==item *

If the first item in a bracket group is the empty-string, or "_*" or "_<digits>" or "_-<digits>", then that group is interpreted as just the interpolation of all its items:

join('',
   ...rest of items in this group...
 ),

Examples: "[_1]" and "[--1]", which are synonymous; and "C<.ID-(.--.-_2.)>", which compiles as C<join '', ID-('', $[4], '', $[2], ')>.

==item *

Otherwise this bracket group is invalid. For example, in the group "[@#,whatever]", the first item C<'!@#'> is neither the empty-string, "_<number>", "_-<number>", "_*", nor a valid method name; and so Locale::Maketext will throw an exception of you try compiling an expression containing this bracket group.
Note, incidentally, that items in each group are comma-separated, not C's <s*/s*>-separated. That is, you might expect that this bracket group:

"Hoohah [foo, _1, bar,baz]!"

would compile to this:

```perl
sub {
    my $lh = $_[0];
    return join ",
            "Hoohah",
            $lh->foo( $_[1], "bar", "baz"),
            "!",
}
```

But it actually compiles as this:

```perl
sub {
    my $lh = $_[0];
    return join ",
            "Hoohah",
            $lh->foo(" _1 ", " bar ", "baz"), # note the <space> in " bar "
            "!",
}
```

In the notation discussed so far, the characters "[" and "]" are given special meaning, for opening and closing bracket groups, and ",," has a special meaning inside bracket groups, where it separates items in the group. This begs the question of how you'd express a literal "[" or "]" in a Bracket Notation string, and how you'd express a literal comma inside a bracket group. For this purpose I've adopted "~" (tilde) as an escape character: "~[" means a literal '[' character anywhere in Bracket Notation (i.e., regardless of whether you're in a bracket group or not), and ditto for "~]" meaning a literal ']', and "~," meaning a literal comma. (Altho ",," means a literal comma outside of bracket groups -- it's only inside bracket groups that commas are special.)

And on the off chance you need a literal tilde in a bracket expression, you get it with "~~".

Currently, an unescaped "~" before a character other than a bracket or a comma is taken to mean just a "~" and that character. I.e., "~X" means the same as "~X" -- i.e., one literal tilde, and then one literal "X". However, by using "~X", you are assuming that no future version of Maketext will use "~X" as a magic escape sequence.
In practice this is not a great problem, since first off you can just write "~~X" and not worry about it; second off, I doubt I'll add lots of new magic characters to bracket notation; and third off, you aren't likely to want literal "~~" characters in your messages anyway, since it's not a character with wide use in natural language text.

Brackets must be balanced -- every openbracket must have one matching closebracket, and vice versa. So these are all invalid:

"I ate [quant,_1,rhubarb pie."
"I ate [quant,_1,rhubarb pie[."
"I ate quant._1,rhubarb pie]."
"I ate quant._1,rhubarb pie[."

Currently, bracket groups do not nest. That is, you cannot say:

"Foo [bar,baz,[quux,quuux]]\n";

If you need a notation that's that powerful, use normal Perl:

```perl
%Lexicon = (

... 
"some_key" => sub {
    my $lh = $_[0];
    join ",
        "Foo ",
        $lh->bar('baz', $lh->quux('quuux')),
        "\n",
    },
... 
);
```

Or write the "bar" method so you don't need to pass it the output from calling quux.

I do not anticipate that you will need (or particularly want) to nest bracket groups, but you are welcome to email me with convincing (real-life) arguments to the contrary.

=head1 AUTO LEXICONS

If maketext goes to look in an individual %Lexicon for an entry for I<key> (where I<key> does not start with an underscore), and sees none, but does see an entry of "_AUTO" =&gt; I<some_true_value>, then we actually define $Lexicon{I<key> } = I<key> right then and there, and then use that value as if it had been there all along. This happens before we even look in any superclass %Lexicons!
(This is meant to be somewhat like the AUTOLOAD mechanism in Perl's function call system -- or, looked at another way, like the \AutoLoader\AutoLoader module.)

I can picture all sorts of circumstances where you just do not want lookup to be able to fail (since failing normally means that maketext throws a \die, although see the next section for greater control over that). But here's one circumstance where _AUTO lexicons are meant to be I<especially> useful:

As you're writing an application, you decide as you go what messages you need to emit. Normally you'd go to write this:

```
if(-e $filename) {
   go_process_file($filename)
} else {
   print qq{Couldn't find file "$filename"!
};
```

but since you anticipate localizing this, you write:

```
use ThisProject::I18N;
my $lh = ThisProject::I18N->get_handle();
# For the moment, assume that things are set up so # that we load class ThisProject::I18N::en # and that that's the class that $lh belongs to.
...
if(-e $filename) {
   go_process_file($filename)
} else {
   print $lh->maketext(
      qq{Couldn't find file "[_1]"!
}, $filename
);}
```

Now, right after you've just written the above lines, you'd normally have to go open the file ThisProject/I18N/en.pm, and immediately add an entry:

```
"Couldn't find file \"[_1]\"!n"
=> "Couldn't find file \"[_1]\"!n",
```

But I consider that somewhat of a distraction from the work of getting the main code working -- to say nothing of the fact that I often have to play with the program a few times before I can decide exactly what wording I want in the messages (which in this case would require me to go changing three lines of code:
the call to maketext with that key, and then the two lines in
ThisProject/I18N/en.pm).

However, if you set "_AUTO => 1" in the %Lexicon in,
ThisProject/I18N/en.pm (assuming that English (en) is
the language that all your programmers will be using for this
project's internal message keys), then you don't ever have to
going adding lines like this

"Couldn't find file \"\_1\"!
=> "Couldn't find file \"\_1\"!",

to ThisProject/I18N/en.pm, because if _AUTO is true there,
then just looking for an entry with the key "Couldn't find
file \"\_1\"!
" in that lexicon will cause it to be added,
with that value!

Note that the reason that keys that start with "_"
are immune to _AUTO isn't anything generally magical about
the underscore character -- I just wanted a way to have most
lexicon keys be autoable, except for possibly a few, and I
arbitrarily decided to use a leading underscore as a signal
to distinguish those few.

=head1 READONLY LEXICONS

If your lexicon is a tied hash the simple act of caching the compiled value can be fatal.

For example a L<GDBM_File> GDBM_READER tied hash will die with something like:

gdbm store returned -1, errno 2, key "..." at ...

All you need to do is turn on caching outside of the lexicon hash itself like so:

sub init {  
  my ($lh) = @_;  
  ...
  $lh->{use_external_lex_cache} = 1;
  ...
}

And then instead of storing the compiled value in the lexicon hash it will store it in $lh->{'_external_lex_cache'}

=head1 CONTROLLING LOOKUP FAILURE

If you call $lh->maketext(I<key>, ...parameters...),
and there's no entry I<key> in $lh's class's %Lexicon, nor
in the superclass %Lexicon hash, _and if we can't auto-make
I<key> (because either it starts with a "_", or because none of its lexicons have C<AUTO =E<gt> 1,>, then we have failed to find a normal way to maketext I<key>. What then happens in these failure conditions, depends on the $lh object's "fail" attribute.

If the language handle has no "fail" attribute, maketext will simply throw an exception (i.e., it calls C<die>, mentioning the I<key> whose lookup failed, and naming the line number where the calling $lh->maketext(I<key>,...) was.

If the language handle has a "fail" attribute whose value is a coderef, then $lh->maketext(I<key>,...params...) gives up and calls:

return $that_subref->($lh, $key, @params);

Otherwise, the "fail" attribute's value should be a string denoting a method name, so that $lh->maketext(I<key>,...params...) can give up with:

return $lh->$that_method_name($phrase, @params);

The "fail" attribute can be accessed with the C<fail_with> method:

# Set to a coderef:
$lh->fail_with( \&failure_handler );

# Set to a method name:
$lh->fail_with( 'failure_method' );

# Set to nothing (i.e., so failure throws a plain exception)
$lh->fail_with( undef );

# Get the current value
$handler = $lh->fail_with();

Now, as to what you may want to do with these handlers: Maybe you'd want to log what key failed for what class, and then die. Maybe you don't like C<die> and instead you want to send the error message to STDOUT (or wherever) and then merely C<exit()>.

Or maybe you don't want to C<die> at all! Maybe you could use a handler like this:

# Make all lookups fall back onto an English value,
# but only after we log it for later fingerprinting.
my $lh_backup = ThisProject->get_handle('en');
open(LEX_FAIL_LOG, ">>wherever/lex.log") || die "GNAARGH $!";
sub lex_fail {
    my($failing_lh, $key, $params) = @_;  
    print LEX_FAIL_LOG scalar(localtime), "\t", ref($failing_lh), "\t", $key, "\n";  
    return $lh_backup->maketext($key, @params); 
}

Some users have expressed that they think this whole mechanism of having a "fail" attribute at all, seems a rather pointless complication. But I want Locale::Maketext to be usable for software projects of any scale and type; and different software projects have different ideas of what the right thing is to do in failure conditions. I could simply say that failure always throws an exception, and that if you want to be careful, you'll just have to wrap every call to $lh->maketext in an S<eval { }>. However, I want programmers to reserve the right (via the "fail" attribute) to treat lookup failure as something other than an exception of the same level of severity as a config file being unreadable, or some essential resource being inaccessible.

One possibly useful value for the "fail" attribute is the method name "failure_handler_auto". This is a method defined in the class Locale::Maketext itself. You set it with:

$lh->fail_with('failure_handler_auto');

Then when you call $lh->maketext($key, ...parameters...) and there's no $key in any of those lexicons, maketext gives up with

return $lh->failure_handler_auto($key, @params);

But failure_handler_auto, instead of dying or anything, compiles $key, caching it in

$lh->{'failure_lex'}{$key} = $compiled

and then calls the compiled value, and returns that. (I.e., if $key looks like bracket notation, $compiled is a sub, and we return &{$compiled}(@params); but if $key is just a plain string, we just return that.)

The effect of using "failure_auto_handler" is like an AUTO lexicon, except that it 1) compiles $key even if it starts with "\", and 2) you have a record in the new hashref $lh->{'failure_lex'} of all the keys that have failed for this object. This should avoid your program dying -- as long as your keys aren't actually invalid as bracket code, and as long as they don't try calling methods that don't exist.
“failure_auto_handler” may not be exactly what you want, but I hope it at least shows you that maketext failure can be mitigated in any number of very flexible ways. If you can formalize exactly what you want, you should be able to express that as a failure handler. You can even make it default for every object of a given class, by setting it in that class’s init:

sub init {
    my $lh = $_[0];  # a newborn handle
    $lh->SUPER::init();
    $lh->fail_with('my_clever_failure_handler');
    return;
}
sub my_clever_failure_handler {
    ...you clever things here...
}

=head1 HOW TO USE MAKETEXT

Here is a brief checklist on how to use Maketext to localize applications:

=over

=item *

Decide what system you’ll use for lexicon keys. If you insist, you can use opaque IDs (if you’re nostalgic for C<catgets>), but I have better suggestions in the section "Entries in Each Lexicon", above. Assuming you opt for meaningful keys that double as values (like "Minimum ([_1]) is larger than maximum ([_2])!
"), you’ll have to settle on what language those should be in. For the sake of argument, I’ll call this English, specifically American English, "en-US".

=item *

Create a class for your localization project. This is the name of the class that you’ll use in the idiom:

use Projname::L10N;
my $lh = Projname::L10N->get_handle(...) || die "Language?”;

Assuming you call your class Projname::L10N, create a class consisting minimally of:

package Projname::L10N;
use base qw(Locale::Maketext);
...any methods you might want all your languages to share...

# And, assuming you want the base class to be an _AUTO lexicon,
# as is discussed a few sections up:

1;

=item *

Create a class for the language your internal keys are in. Name
the class after the language-tag for that language, in lowercase,
with dashes changed to underscores. Assuming your project's first
language is US English, you should call this Projname::L10N::en_us.
It should consist minimally of:

package Projname::L10N::en_us;
use base qw(Projname::L10N);
%Lexicon = (
   '_AUTO' => 1,
);
1;

(For the rest of this section, I'll assume that this "first
language class" of Projname::L10N::en_us has
_AUTO lexicon.)

=item *

Go and write your program. Everywhere in your program where
you would say:

    print "Foobar $thing stuff\n";

instead do it thru maketext, using no variable interpolation in
the key:

    print $lh->maketext("Foobar [_1] stuff\n", $thing);

If you get tired of constantly saying C<print $lh->maketext>,
consider making a functional wrapper for it, like so:

use Projname::L10N;
use vars qw($lh);
$Lh = Projname::L10N->get_handle(...) || die "Language?";
sub pmt (@) { print( $lh->maketext(@_) ) }
# "pmt" is short for "Print MakeText"
$Carp::Verbose = 1;
# so if maketext fails, we see made the call to pmt
Besides whole phrases meant for output, anything language-dependent should be put into the class Projname::L10N::en_us, whether as methods, or as lexicon entries -- this is discussed in the section "Entries in Each Lexicon", above.

=itm *

Once the program is otherwise done, and once its localization for the first language works right (via the data and methods in Projname::L10N::en_us), you can get together the data for translation. If your first language lexicon isn't an _AUTO lexicon, then you already have all the messages explicitly in the lexicon (or else you'd be getting exceptions thrown when you call $lh->maketext to get messages that aren't in there). But if you were (advisedly) lazy and are using an _AUTO lexicon, then you've got to make a list of all the phrases that you've so far been letting _AUTO generate for you. There are very many ways to assemble such a list. The most straightforward is to simply grep the source for every occurrence of "maketext" (or calls to wrappers around it, like the above C<pmt> function), and to log the following phrase.

=itm *

You may at this point want to consider whether your base class (Projname::L10N), from which all lexicons inherit from (Projname::L10N::en, Projname::L10N::es, etc.), should be an _AUTO lexicon. It may be true that in theory, all needed messages will be in each language class; but in the presumably unlikely or "impossible" case of lookup failure, you should consider whether your program should throw an exception, emit text in English (or whatever your project's first language is), or some more complex solution as described in the section "Controlling Lookup Failure", above.

=itm *

Submit all messages/phrases/etc. to translators.

(You may, in fact, want to start with localizing to I<one> other language at first, if you're not sure that you've properly abstracted the language-dependent parts of your code.)

Translators may request clarification of the situation in which a particular phrase is found. For example, in English we are entirely happy saying "I<n> files found", regardless of whether we mean "I looked for files, and found I<n> of them" or the rather distinct situation of "I looked for something else (like lines in files), and along the way I saw I<n> files." This may involve rethinking things that you thought quite clear:
should "Edit" on a toolbar be a noun ("editing") or a verb ("to edit")? Is there already a conventionalized way to express that menu option, separate from the target language's normal word for "to edit"?

In all cases where the very common phenomenon of quantification (saying "I<N> files", for B<any> value of N) is involved, each translator should make clear what dependencies the number causes in the sentence. In many cases, dependency is limited to words adjacent to the number, in places where you might expect them ("I found the-?PLURAL I<N> empty-?PLURAL directory-?PLURAL"), but in some cases there are unexpected dependencies ("I found-?PLURAL ...!") as well as long-distance dependencies "The I<N> directory-?PLURAL could not be deleted-?PLURAL").

Remind the translators to consider the case where N is 0: "0 files found" isn't exactly natural-sounding in any language, but it may be unacceptable in many -- or it may condition special kinds of agreement (similar to English "I didN'T find ANY files").

Remember to ask your translators about numeral formatting in their language, so that you can override the C<numf> method as appropriate. Typical variables in number formatting are: what to use as a decimal point (comma? period?); what to use as a thousands separator (space? nonbreaking space? comma? period? small middot? prime? apostrophe?); and even whether the so-called "thousands separator" is actually for every third digit -- I've heard reports of two hundred thousand being expressible as "2,00,000" for some Indian (Subcontinental) languages, besides the less surprising "S<200 000>" , "200.000", "200,000", and "200'000". Also, using a set of numeral glyphs other than the usual ASCII "0"-"9" might be appreciated, as via C<tr/0-9/x{0966}-x{096F}/> for getting digits in Devanagari script (for Hindi, Konkani, others).

The basic C<quant> method that Locale::Maketext provides should be good for many languages. For some languages, it might be useful to modify it (or its constituent C<numerate> method) to take a plural form in the two-argument call to C<quant> (as in "[quant,_,1.files]") if it's all-around easier to infer the singular form from the plural, than to infer the plural form from the singular.

But for other languages (as is discussed at length in L<Locale::Maketext::TPJ13|Locale::Maketext::TPJ13>), simple C<quant>/C<numf> is not enough. For the particularly problematic Slavic languages, what you may need is a method which you provide with the number, the citation form of the noun to quantify, and the case and gender that the sentence's syntax projects onto that noun slot. The method would then be responsible for determining
what grammatical number that numeral projects onto its noun phrase, and what case and gender it may override the normal case and gender with; and then it would look up the noun in a lexicon providing all needed inflected forms.

=itm *

You may also wish to discuss with the translators the question of how to relate different subforms of the same language tag, considering how this reacts with C<get_handle>'s treatment of these. For example, if a user accepts interfaces in "en, fr", and you have interfaces available in "en-US" and "fr", what should they get? You may wish to resolve this by establishing that "en" and "en-US" are effectively synonymous, by having one class zero-derive from the other.

For some languages this issue may never come up (Danish is rarely expressed as "da-DK", but instead is just "da"). And for other languages, the whole concept of a "generic" form may verge on being uselessly vague, particularly for interfaces involving voice media in forms of Arabic or Chinese.

=itm *

Once you've localized your program/site/etc. for all desired languages, be sure to show the result (whether live, or via screenshots) to the translators. Once they approve, make every effort to have it then checked by at least one other speaker of that language. This holds true even when (or especially when) the translation is done by one of your own programmers. Some kinds of systems may be harder to find testers for than others, depending on the amount of domain-specific jargon and concepts involved -- it's easier to find people who can tell you whether they approve of your translation for "delete this message" in an email-via-Web interface, than to find people who can give you an informed opinion on your translation for "attribute value" in an XML query tool's interface.

=back

=head1 SEE ALSO

I recommend reading all of these:

L<Locale::Maketext::TPJ13|Locale::Maketext::TPJ13> -- my I<The Perl Journal> article about Maketext. It explains many important concepts underlying Locale::Maketext's design, and some insight into why Maketext is better than the plain old approach of having
message catalogs that are just databases of sprintf formats.

L<File::Findgrep> is a sample application/module that uses Locale::Maketext to localize its messages. For a larger internationalized system, see also L<Apache::MP3>.

L<I18N::LangTags>, L<Win32::Locale>.

RFC 3066, I<Tags for the Identification of Languages>, as at http://sunsite.dk/RFC/rfc/rfc3066.html

RFC 2277, I<IETF Policy on Character Sets and Languages> is at http://sunsite.dk/RFC/rfc/rfc2277.html -- much of it is just things of interest to protocol designers, but it explains some basic concepts, like the distinction between locales and language-tags.

The manual for GNU C<gettext>. The gettext dist is available in C<ftp://prep.ai.mit.edu/pub/gnu/> -- get a recent gettext tarball and look in its "doc/" directory, there's an easily browsable HTML version in there. The gettext documentation asks lots of questions worth thinking about, even if some of their answers are sometimes wonky, particularly where they start talking about pluralization.

The Locale/Maketext.pm source. Obverse that the module is much shorter than its documentation!

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
Locale::Maketext

Locale::Maketext is a base class providing a framework for localization and inheritance-based lexicons, as described in my article in The Perl Journal #13 (a corrected version of which appears in this dist).

PREREQUISITES

This suite requires Perl 5. It also requires a recent version of I18N::LangTags. MSWin users should also get Win32::Locale. File::Findgrep is also useful example code, as is the rather larger Apache::MP3 source (even if you don't run Apache).

INSTALLATION

You install Locale::Maketext, as you would install any Perl module distribution, by running these commands:

perl Makefile.PL
  make
  make test
  make install

If you want to install a private copy of Maketext in your home directory, then you should try to produce the initial Makefile with something like this command:

perl Makefile.PL LIB=~/perl

See perldoc perlmodinstall for more information.

DOCUMENTATION

See the pod in Locale::Maketext and Locale::Maketext::TPJ13, and see also File::Findgrep.
**SUPPORT**

Questions, bug reports, useful code bits, and suggestions for Worms should be sent to me at sburke@cpan.org

**AVAILABILITY**

The latest version of Locale::Maketext is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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dist/B-Lint/*
dist/constant/*
dist/Devel-SelfStubber/*
dist/Dumpvalue/*
dist/Env/*
dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/File-Checktree/*
dist/I18N-Collate/*
dist/if/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
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ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl

metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
  name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----------------------------------------------#
# Create test distribution
#-----------------------------------------------#

{ my $dist = DistGen->new("Simple::Name",
    name => 'Simple::Name',
    version => '0.01',
    }


license = 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
  "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
  "META license URL is correct"
);

}

{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
  );

  $dist->regen;
  $dist->chdir_in;

  my $mb = $dist->new_from_context();
  isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
  );

  my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
  );
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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The files \texttt{dumpkeys.c} loadkeys.y loadkeys.analyze.1 ksym.s ksyms.k
dumpkeys.1 showkey.1 showkeys.5 loadkeys.1 dumpkeys.1 showkeys.5
go are Copyright (C) 1993 Risto Kankkunen.

The files setfont.c setfont.8 mapscrn.c mapscrn.8
(set changes to loadkeys.y)
are Copyright (C) 1993 Eugene G. Crosser.

The files
psfaddtable.1 psfgettable.1 psfstriptable.1
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psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*
(and changes to earlier mentioned programs)
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The file
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                         Chuck Martin <cmartin@bigfoot.com>
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1.3880 python-jsonpointer 1.0-2build1

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1.3881 gophercloud 0.9.0
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
tag Resource struct {
}
type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
tag GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
tag CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
tag DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
tag UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
tag ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
fnc (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).
Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.
### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.
### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

================================
Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

### Request a Code Review

---------------------
When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md)) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import (  
  "fmt"  
  "net/http"  
  "testing"  
)
// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`.

// GetResult provides a Get result.
const GetResult = `
{
}
`.

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`.

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `
{
}
`.

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`.

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}
// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    })
}
// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
    return
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.Tear downHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        return
    })
    th.AssertEqual(t, count, len(actual))
func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)
res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

package RESOURCE

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Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made
Gophercloud a better project with your work.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 4: Acceptance Testing
=================================

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.
Reporting a Bug

---------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

Feature Request

---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* [https://github.com/gophercloud/gophercloud/issues/310](https://github.com/gophercloud/gophercloud/issues/310)
* [https://github.com/gophercloud/gophercloud/issues/613](https://github.com/gophercloud/gophercloud/issues/613)
* [https://github.com/gophercloud/gophercloud/issues/729](https://github.com/gophercloud/gophercloud/issues/729)
* [https://github.com/gophercloud/gophercloud/issues/713](https://github.com/gophercloud/gophercloud/issues/713)

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.
You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).
Also note how these issues provide links to the service's Python code. These links are not required for issues, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

===============

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
 type Network struct {
   ID          string `json:"id"`
   Name        string `json:"name"`
   AdminStateUp bool  `json:"admin_state_up"`
   Status      string `json:"status"`
   Subnets     []string `json:"subnets"`
   TenantID    string `json:"tenant_id"`
   Shared      bool   `json:"shared"`
 }
```

---

to look like:

```
```
```go
type Network struct {
    ID        string `json:"id"`
    Name      string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status    string `json:"status"`
    Subnets   []string `json:"subnets"`
    TenantID  string `json:"tenant_id"`
    Shared    bool   `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch.
for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides
========================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](./github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).
1.3882 joda-time 2.5
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1.3883 libgpg-error 1.17-3

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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ImmutableSetMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/primitives/SignedBytes.java

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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/base/Supplier.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/io/Closeables.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/collection/Multimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/collection/Multimaps.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/collection/ImmutableSet.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/eventbus/AnnotatedSubscriberFinder.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1.jar/jersey/repackaged/com/google/common/collect/LinkedHashMultiset.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/io/ByteSource.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/FilteredEntryMultimap.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableAsList.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractMultimap.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableSet.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMap.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractNavigableSet.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/html/package-info.java

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 * /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ListenerCallQueue.java

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 * /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/DenseImmutableTable.java
 * /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/MapMaker.java
 * /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/Cut.java
 * /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/collect/SparseImmutableTable.java
*/opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableTable.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/base/Verify.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/base/AbstractTable.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/base/Joiner.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/Range.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/Queues.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/HashFunction.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java

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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/base/Ascii.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/collect/SortedMapDifference.java

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1.3895 c-ares 1.10.0-2ubuntu0.2

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c-ares
=======

This is c-ares, an asynchronous resolver library. It is intended for applications which need to perform DNS queries without blocking, or need to perform multiple DNS queries in parallel. The primary examples of such applications are servers which communicate with multiple clients and programs with graphical user interfaces.

The full source code is available in the 'c-ares' release archives, and in a git repository: http://github.com/bagder/c-ares

If you find bugs, correct flaws, have questions or have comments in general in regard to c-ares (or by all means the original ares too), get in touch with us on the c-ares mailing list: http://cool.haxx.se/mailman/listinfo/c-ares

c-ares is of course distributed under the same MIT-style license as the original ares.
NOTES FOR C-ARES HACKERS

* The distributed ares_build.h file is only intended to be used on systems which can not run the also distributed configure script.

* The distributed ares_build.h file is generated as a copy of ares_build.h.dist when the c-ares source code distribution archive file is originally created.

* If you check out from git on a non-configure platform, you must run the appropriate buildconf* script to set up ares_build.h and other local files before being able of compiling the library.

* On systems capable of running the configure script, the configure process will overwrite the distributed ares_build.h file with one that is suitable and specific to the library being configured and built, this new file is generated from the ares_build.h.in template file.

* If you intend to distribute an already compiled c-ares library you _MUST_ also distribute along with it the generated ares_build.h which has been used to compile it. Otherwise the library will be of no use for the users of the library that you have built. It is _your_ responsibility to provide this file. No one at the c-ares project can know how you have built the library.

* File ares_build.h includes platform and configuration dependent info, and must not be modified by anyone. Configure script generates it for you.

* We cannot assume anything else but very basic compiler features being present. While c-ares requires an ANSI C compiler to build, some of the earlier ANSI compilers clearly can't deal with some preprocessor operators.

* Newlines must remain unix-style for older compilers' sake.

* Comments must be written in the old-style /* unnested C-fashion */

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* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_init.3
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* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_platform.c
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* /opt/cola/permits/113538277_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/m4/xc-val-flgs.m4

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* /opt/cola/permits/113538277_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_timeout.3
* /opt/cola/permits/113538277_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_query.3
* /opt/cola/permits/113538277_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_destroy_options.3
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#define __CARES_BUILD_H

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/* ============================================================== */
/* NOTES FOR CONFIGURE CAPABLE SYSTEMS */
/* ============================================================== */

/*
* NOTE 1:
* -------
*
* Nothing in this file is intended to be modified or adjusted by the
* c-ares library user nor by the c-ares library builder.
*
* If you think that something actually needs to be changed, adjusted
* or fixed in this file, then, report it on the c-ares development
* mailing list: http://cool.haxx.se/mailman/listinfo/c-ares/
*
* This header file shall only export symbols which are 'cares' or 'CARES'
* prefixed, otherwise public name space would be polluted.
*
* NOTE 2:
* -------
*
* Right now you might be staring at file ares_build.h.in or ares_build.h,
* this is due to the following reason:
*
* On systems capable of running the configure script, the configure process
* will overwrite the distributed ares_build.h file with one that is suitable
* and specific to the library being configured and built, which is generated
* from the ares_build.h.in template file.
*
*/

/* ============================================================== */
/* DEFINITION OF THESE SYMBOLS SHALL NOT TAKE PLACE ANYWHERE ELSE */
/* ============================================================== */

#ifdef CARES_SIZEOF_LONG
#error "CARES_SIZEOF_LONG shall not be defined except in ares_build.h"
Error Compilation_aborted_CARES_SIZEOF_LONG_already_defined
#endif

#ifdef CARES_TYPEOF_ARES_SOCKLEN_T
#error "CARES_TYPEOF_ARES_SOCKLEN_T shall not be defined except in ares_build.h"
Error Compilation_aborted_CARES_TYPEOF_ARES_SOCKLEN_T_already_defined
#endif
#ifdef CARES_SIZEOF_ARES_SOCKLEN_T
  # error "CARES_SIZEOF_ARES_SOCKLEN_T shall not be defined except in ares_build.h"
  Error Compilation_aborted_CARES_SIZEOF_ARES_SOCKLEN_T_already_defined
#endif

/* ================================================================ */
/* EXTERNAL INTERFACE SETTINGS FOR CONFIGURE CAPABLE SYSTEMS ONLY */
/* ============================================================== */

/* Configure process defines this to 1 when it finds out that system */
/* header file ws2tcpip.h must be included by the external interface. */
#undef CARES_PULL_WS2TCPPIP_H
#ifdef CARES_PULL_WS2TCPPIP_H
  #ifndef WIN32_LEAN_AND_MEAN
    #define WIN32_LEAN_AND_MEAN
  #endif
  #include <windows.h>
  #include <winsock2.h>
  #include <ws2tcpip.h>
#endif

/* Configure process defines this to 1 when it finds out that system */
/* header file sys/types.h must be included by the external interface. */
#undef CARES_PULL_SYS_TYPES_H
#ifdef CARES_PULL_SYS_TYPES_H
  # include <sys/types.h>
#endif

/* Configure process defines this to 1 when it finds out that system */
/* header file sys/socket.h must be included by the external interface. */
#undef CARES_PULL_SYS_SOCKET_H
#ifdef CARES_PULL_SYS_SOCKET_H
  # include <sys/socket.h>
#endif

/* The size of `long', as computed by sizeof. */
#undef CARES_SIZEOF_LONG

/* Integral data type used for ares_socklen_t. */
#undef CARES_TYPEOF_ARES_SOCKLEN_T

/* The size of `ares_socklen_t', as computed by sizeof. */
#undef CARES_SIZEOF_ARES_SOCKLEN_T

/* Data type definition of ares_socklen_t. */
typedef CARES_TYPEOF_ARES_SOCKLEN_T ares_socklen_t;
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* getopt.c --
*
* Standard UNIX getopt function. Code is from BSD.
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* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_destroy.c
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 * IP-address/hostname to country converter.
 *
 * Problem: you want to know where IP a.b.c.d is located.
 *
 * Use ares_gethostbyname ("d.c.b.a.zz.countries.nerd.dk")
 * and get the CNAME (host->h_name). Result will be:
 * CNAME = zz<CC>.countries.nerd.dk with address 127.0.x.y (ver 1) or
 * CNAME = <a.b.c.d>.zz.countries.nerd.dk with address 127.0.x.y (ver 2)
 *
 * The 2 letter country code is in <CC> and the ISO-3166 country
 * number is in x,y (number = x*256 + y). Version 2 of the protocol is missing
 * the <CC> number.
 *
 * Ref: http://countries.nerd.dk/more.html
 *
 * Written by G. Vanem <gvanem@broadpark.no> 2006, 2007
 *
 * NB! This program may not be big-endian aware.
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 */

Found in path(s):
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No license file was found, but licenses were detected in source scan.

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/*

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Found in path(s):
* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/bitncmp.c
* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/inet_net_pton.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_dup.3
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Found in path(s):
* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/ares_getsock.3
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Found in path(s):
* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/setup_once.h
No license file was found, but licenses were detected in source scan.

Changelog for the c-ares project. Generated with git2changes.pl

Version 1.10.0 (12 May 2013)

Daniel Stenberg (12 May 2013)
- RELEASE-NOTES: two more bug fixes
- [Keith Shaw brought this change]

ares_set_servers_csv: fixed IPv6 address parsing
Fixed bug that caused the last part of an IPv6 address to be parsed as the port number when the last part is all numeric.

- nroff: fix two syntax mistakes

ares_parse_a_reply and ares_parse_aaaa_reply both had two \fB instead of \fP

Reported-by: Alexander Klauer

- [Alex Loukissas brought this change]

build: fix build on msvc11

- Makefile.am: increment -version-info for 1.10.0 release

- README: remove unnecessary comment

- ares_version.h: copyright end range year is now 2013

- RELEASE-NOTES: synced with fb0737f3a0a1c37

- [Paul Saab brought this change]

ares_parse_aaaa_reply: Plug memory leak

This change is similar to ares_parse_a_reply.c in commit bfffd67f16a8f42fe6dbf79ab2e39d92ea05c8a6

- [Patrick Valsecchi brought this change]

ares_parse_txt_reply: return a ares_txt_reply node for each sub-string

Previously, the function would wrongly return all substrings merged into one.

- [Alexander Klauer brought this change]

library init: documentation update

This commit updates the documentation of ares_library_init() and ares_library_cleanup() with regard to the newly introduced reference counting of initializations and deinitializations.

- [Alexander Klauer brought this change]

library init: be recursive
Previously, a single call to ares_library_cleanup() would deinitialise the c-ares library, regardless of how many times ares_library_init() was called. This behaviour may cause problems in programs linking two or more libraries which, in turn, use c-ares. The present commit fixes this problem, deinitializing the library only after a number of calls to ares_library_cleanup() matching the number of calls to ares_library_init().

- [Patrick Valsecchi brought this change]

protocol parsing: check input data stricter

... so that bad length fields aren't blindly accepted


Guenter Knauf (11 Apr 2013)
- Create ares_build.h when building from Git.

- Added -DCARES_STATICLIB to CFLAGS.

Currently this static makefile does only support building the static library libcares.a.

Daniel Stenberg (8 Apr 2013)
- [Alexander Klauer brought this change]

.gitignore: ignore patch files

This commit adds a line to .gitignore to the effect that patch files generated by `git format-patch` are excluded from the repository.

- [Alexander Klauer brought this change]

ares_destroy() documentation: no new requests

Clarify that no new requests may be added to a resolver channel that is currently being destroyed.

- [Alexander Klauer brought this change]

Documentation: properly document ARES_ECANCELLED

This commit clarifies the behaviour of ares_cancel() with respect to callbacks and adds missing documentation of ARES_ECANCELLED to the man pages of the affected functions.
- [Alexander Klauer brought this change]

ares_cancel(): cancel requests safely

An invocation of ares_cancel() walks through the request list, calling the callbacks of all pending requests on a channel. Previously, if such a callback added a new request to the channel, the request list might not end up empty, causing an abort by assertion failure. The present commit ensures that precisely all requests present upon entry of ares_cancel() are cancelled, and that adding new requests through callbacks is safe.

Yang Tse (10 Mar 2013)
- ares.h: stricter CARES_EXTERN linkage decorations logic

No API change involved.

- ares_build.h.dist: enhance non-configure GCC ABI detection logic

GCC specific adjustments:

- check __ILP32__ before 32 and 64bit processor architectures in order to detect ILP32 programming model on 64 bit processors which, of course, also support LP64 programming model, when using gcc 4.7 or newer.

- keep 32bit processor architecture checks in order to support gcc versions older than 4.7 which don't define __ILP32__

- check __LP64__ for gcc 3.3 and newer, while keeping 64bit processor architecture checks for older versions which don't define __LP64__

Daniel Stenberg (9 Mar 2013)
- ares.h: there is no ares_free_soa function

Yang Tse (9 Mar 2013)
- Makefile.am: empty AM_LDFLAGS definition for automake 1.7 compatibility

- ares_inet_ntop.3: s/socklen_t/ares_socklen_t

- configure: use XC_LIBTOOL for portability across libtool versions

- xc-Lt-iface.m4: provide XC_LIBTOOL macro

- Makefile.am: use AM_CPPFLAGS instead of INCLUDES

- inet_ntop.c: s/socklen_t/ares_socklen_t
- inet_ntop.c: s/socklen_t/ares_socklen_t for portability

Daniel Stenberg (19 Feb 2013)
- ares.h: s/socklen_t/ares_socklen_t for portability

- ares_inet_ntop.3: 4th argument is socklen_t!

- spell inet correctly!

- ares_inet_pton/ntop: cleanup

Make sure that the symbols are always exported and present in c-ares.

Make the headers prefixed with `ares`.

Removed the inet_ntop.h version as it no longer features any content.

- ares_inet_ntop/ares_inet_pton: added man pages

Yang Tse (15 Feb 2013)
- [Gisle Vanem brought this change]

curl_setup_once.h: definition of HAVE_CLOSE_S defines sclose() to close_s()

- [Gisle Vanem brought this change]

config-dos.h: define HAVE_CLOSE_S for MSDOS/Watt-32

- [Gisle Vanem brought this change]

config-dos.h: define strerror() to strerror_s() for High-C

Daniel Stenberg (13 Feb 2013)
- ares_get_datatype: removed unused function

it was also wrongly named as internal functions require two underscores

- ares__bitncmp: use two underscores for private functions

It used a single one previously making it look like a public one

- ares__generate_new_id: moved to ares_query.c

... and ares__rc4 is turned into a local static function.

- ares__swap_lists: make private and static

... since there's only one user, make it static within ares_process.c
Yang Tse (13 Feb 2013)
- Makefile.msvc: add four VS version strings

Daniel Stenberg (13 Feb 2013)
- ares_expand_name.3: clarify how to free the data

Yang Tse (30 Jan 2013)
- zz40-xc-ovr.m4: fix 'wc' detection - follow-up 2

  - Fix a pair of single quotes to double quotes.

URL: http://curl.haxx.se/mail/lib-2013-01/0355.html
Reported by: Tor Arntsen

  - zz40-xc-ovr.m4: fix 'wc' detection - follow-up

  - Take into account that 'wc' may return leading spaces and/or tabs.

  - Set initial IFS to space, tab and newline.

  - zz40-xc-ovr.m4: fix 'wc' detection

  - Take into account that 'wc' may return leading spaces.

  - Set internationalization behavior variables.

Tor Arntsen analyzed and reported the issue.

URL: http://curl.haxx.se/mail/lib-2013-01/0351.html

  - zz40-xc-ovr.m4: check another three basic utilities

  - zz40-xc-ovr.m4: 1.0 interface stabilization

  - Stabilization results in 4 public interface m4 macros:
    XC_CONFIGURE_PREAMBLE
    XC_CONFIGURE_PREAMBLE_VER_MAJOR
    XC_CONFIGURE_PREAMBLE_VER_MINOR
    XC_CHECK_PATH_SEPARATOR
  - Avoid one level of internal indirection
  - Update comments
  - Drop XC_OVR_ZZ40 macro

  - zz40-xc-ovr.m4: emit witness message in configure BODY

  This avoids witness message in output when running configure --help,
  while sending the message to config.log for other configure runs.
- `zz40-xc-ovr.m4`: truly do version conditional overriding

- version conditional overriding
- catch unexpanded XC macros
- fix double words in comments

- `zz40-xc-ovr.m4`: fix variable assignment of subshell output bashism

Tor Arntsen analyzed and reported the issue.

URL: http://curl.haxx.se/mail/lib-2013-01/0306.html

- `zz40-xc-ovr.m4`: reinstate strict AC_REQUIRE macro dependencies

- `zz40-xc-ovr.m4`: avoid double single-quote usage

- `zz40-xc-ovr.m4`: parentheses balancing of `case` statements

  m4 quadrigraph shell comment technique allows proper autoconf parentheses balancing in shell `case` statements. The presence of unbalanced parentheses may otherwise trigger expansion bugs.

- `zz40-xc-ovr.m4`: internals overhauling

  - Update comments
  - Execute commands in subshells
  - Faster path separator check
  - Fix missing `test` command
  - Rename private macros
  - Minimize AC_REQUIRE usage

- `zz40-xc-ovr.m4`: redirect errors and warnings to stderr

- configure: use XC_CONFIGURE_PREAMBLE early checks

  Some basic checks we make were placed early enough in generated configure script when using autoconf 2.5X versions. Newer autoconf versions expand these checks much further into the configure script, rendering them useless. Using XC_CONFIGURE_PREAMBLE fixes placement of early intended checks across all our autoconf supported versions.

- `zz40-xc-ovr.m4`: provide XC_CONFIGURE_PREAMBLE macro

- configure: autotools compatibility fixes - step I

  Fix proper macro expansion order across autotools versions for C compiler and preprocessor program checks.
- configure: fix automake 1.13 compatibility

Tested with:

buildconf: autoconf version 2.69
buildconf: autom4te version 2.69
buildconf: autoheader version 2.69
buildconf: automake version 1.13.1
buildconf: alocal version 1.13.1
buildconf: libtool version 2.4
buildconf: GNU m4 version 1.4.16

- ares_private.h: use again memdebug.h instead of curl_memdebug.h

- configure.ac: replace AM_CONFIG_HEADER with AC_CONFIG_HEADERS

automake 1.13 errors if AM_CONFIG_HEADER is used in configure script.

- cares-override.m4: provide AC_CONFIG_MACRO_DIR definition conditionally

Provide a 'traceable' AC_CONFIG_MACRO_DIR definition only when using an autoconf version that does not provide it, instead of what we were doing up to now of providing and overriding AC_CONFIG_MACRO_DIR for all autoconf versions.

- ares_private.h: use curl_memdebug.h instead of memdebug.h

- vc6cares.dsp: add ares_create_query.c and ares_parse_soa_reply.c

- cares-functions.m4: improve gethostname arg 2 data type check

- setup_once.h: HP-UX specific 'boof', 'false' and 'true' definitions.

    Also reverts commit bceb40095a

- configure: check if compiler halts on function prototype mismatch

- cares-functions.m4: add gethostname arg 2 data type check and definition

- cares-functions.m4: update thread-safeness detection of getaddrinfo()

    Take in account that POSIX standard Issue 7 drops h_errno support. Now, we also consider getaddrinfo() to be thread-safe when (_POSIX_C_SOURCE >= 200809L) or (_XOPEN_SOURCE >= 700) independently of whether h_errno exists or not.

    Take in account that h_errno might be a modifiable lvalue not defined as a C preprocessor macro.
- setup_once.h: HP-UX <sys/socket.h> issue workaround

Issue: When building a 32bit target with large file support HP-UX <sys/socket.h> header file may simultaneously provide two different sets of declarations for sendfile and sendpath functions, one with static and another with external linkage. Given that we do not use mentioned functions we really don't care which linkage is the appropriate one, but on the other hand, the double declaration emits warnings when using the HP-UX compiler and errors when using modern gcc versions resulting in fatal compilation errors.

Mentioned issue is now fixed as long as we don't use sendfile nor sendpath functions.

- setup_once.h: refactor inclusion of <unistd.h> and <sys/socket.h>

Inclusion of these two header files now done in setup_once.h

- Header inclusion clean-up

Remove header inclusions already done in setup_once.h

- setup_once.h: HP-UX specific TRUE and FALSE definitions

Some HP-UX system headers require TRUE defined to 1 and FALSE to 0.

- ares_timeout.c: fix compiler warning

- ares_create_query.c: IRIX compilation fix

- c-ares/nameser.h: add some T_* defines for ns_t_* values

Daniel Stenberg (7 Nov 2012)
- Revert "ares_parse_aaaa_reply: fix memory leak"

This reverts commit 50f25d8a4b2d16f4c5e0ef620238688b7a315c7a.

- ares_parse_aaaa_reply: fix memory leak

an allocated buffer was not freed in the successful case.

- [Gisle Vanem brought this change]

adig: perror() doesn't work for socket errors on windows

... so print the SOCKERRNO instead
- get_DNS_AdaptersAddresses: fix IPv6 parsing

Use of the wrong define made the function not parse IPv6 addresses properly.

Bug: http://c-ares.haxx.se/mail/c-ares-archive-2012-06/0028.shtml
Reported by: Sal Ibarra Corretg

- version: bumped to 1.10.0

Due to the newly added function: ares_create_query()

- AUTHORS: synced with 83093ac450

Added 21 authors since this document was last updated

- ares_create_query.3: mention when this is added

- [hpopescu@ixiacom.com brought this change]

Added new feature (rfc2671)

- code police: fix indents, < 80 columns, reflowed comments

Guenter Knauf (11 Jul 2012)
- Cleaned up version awk script.

Daniel Stenberg (30 Jun 2012)
- [Gisle Vanem brought this change]

read_udp_packets: bail out loop on bad sockets

I can see that recvfrom() in ares_process.c many times is called with
'udp_socket' == ARES_SOCKET_BAD. The code takes care not to call
recv/recvfrom with ARES_SOCKET_BAD in the outer-loop. So should the
inner-loop.

Yang Tse (29 Jun 2012)
- cares-compilers.m4: remove -Wstrict-aliasing=3 from clang

Currently it is unknown if there is any version of clang that
actually supports -Wstrict-aliasing. What is known is that there
are several that don’t support it.

- cares-compilers.m4: -Wstrict-aliasing=3 for warning enabled gcc and clang builds

Daniel Stenberg (18 Jun 2012)
- version: work towards 1.9.2 (at least)
Version 1.9.1 (18 Jun 2012)

Daniel Stenberg (18 Jun 2012)
- RELEASE-NOTES: 1.9.1 coming up

Version 1.9.0 (16 Jun 2012)

Daniel Stenberg (16 Jun 2012)
- ares_version.h: next version is 1.9.0

- [Marko Kreen brought this change]

ares_data.h: ARES_DATATYPE_SOA_REPLY is added in 1.9.0

- RELEASE-NOTES: synced with 979bf951d

Next release deemed to become 1.9.0 due to the new function

- [Marko Kreen brought this change]

SOA parser added

I need to do SOA queries, so here is a parser for them.

- ares_soa_reply: new struct
- ares_malloc_data/ares_free_soa: ARES_DATATYPE_SOA_REPLY
- ares_parse_soa_reply: actual function

Yang Tse (14 Jun 2012)
- Kill compiler warning

- Fix libcares.pc generation for static MingW* cross builds

Daniel Stenberg (21 May 2012)
- [Nick Alcock brought this change]

Fix UDP and TCP port byte order in saved options.

The UDP and TCP port are stored in network byte order in the ares_channeldata, but are passed in to ares_init_options() in host byte order. Thus we must return them from ares_save_options() in host byte order too, or a duplicated channel will convert them again, leading to a nonfunctional channel and a mysterious connection refused error from ares_gethostbyname(). This breaks ares_dup(), thus the curl easy API when c-ares is used by curl, and thus all the curl easy API's users.

Yang Tse (28 Apr 2012)
- version: start working on 1.8.1-DEV

Version 1.8.0 (27 Apr 2012)

Daniel Stenberg (27 Apr 2012)
- RELEASE-NOTES: call next 1.8 instead

Since we added a function, let's use a stricter bumping scheme

Yang Tse (25 Apr 2012)
- INSTALL: some adjustments

Daniel Stenberg (25 Apr 2012)
- GIT-INFO: mention buildconf

Yang Tse (25 Apr 2012)
- INSTALL: remove more sections that don't apply to c-ares

- ares_timeout.c: fix compiler warning

Daniel Stenberg (25 Apr 2012)
- [Ben Noordhuis brought this change]

Makefile.m32: fix mingw32 build

* add . to include path so ares_build.h is picked up
* make ar configurable to ease cross-compiling

- RELEASE-NOTES: added what's happened since 1.7.5

Guenter Knauf (22 Apr 2012)
- Updated copyright year.

Yang Tse (21 Apr 2012)
- ares_init.c: Further refactoring of Windows system's DNS fetching code

Guenter Knauf (20 Apr 2012)
- Android: small changes to dns property part.

Prefix prop vars; kill var; use DNS_PROP_NAME_PREFIX macro.

- Handle CNAME-only in ares_parse_aaaa_reply().

posted to the c-ares list by Peter Griess <pg@std.in>.

- Add support for multiple DNS servers on Android.

Before, c-ares always used the first DNS server on Android, causing
network problems if this DNS server was not available.

Signed-off-by: Geert Uytterhoeven <Geert.Uytterhoeven@sonycom.com>

- Added INSTALL so it gets into tarballs.

- Added some more ifdefs to silent compiler warnings.

Yang Tse (17 Apr 2012)
- INSTALL: remove a non c-ares section

- cares-compilers.m4: -Wno-pedantic-ms-format for Windows gcc 4.5 builds

When building a Windows target with gcc 4.5 or newer and strict compiler warnings enabled use -Wno-pedantic-ms-format in addition to other flags.

- setup_once.h: tighten requirements for stdbool.h header inclusion

Include stdbool.h only when it is available and configure is capable of detecting a proper 'bool' data type when the header is included.

- configure: NATIVE_WINDOWS no longer defined in config file

- cares-compilers.m4: double underscore decoration for visibility attribute

- build adjustments: CARES_SYMBOL_HIDING no longer defined in config files

configure script now provides conditional definitions for Makefile.am that result in CARES_SYMBOL_HIDING being defined by resulting makefiles when appropriate.

- configure: Windows cross-compilation fixes

CARES_BUILDING_LIBRARY and CARES_STATICLIB no longer defined in ares_config.h, configure will generate appropriate conditionals so that mentioned symbols get defined and used in Makefile derived from Makefile.am at compilation time.

Guenter Knauf (17 Apr 2012)
- Added INSTALL file adapted from libcurl.

Not yet ready, and needs further edits.

Yang Tse (16 Apr 2012)
- ares_init.c: get_iphlpapi_dns_info() refactoring

Guenter Knauf (16 Apr 2012)
- Kill some more compiler warnings.
- Kill compiler warning about unused var.

- Fixed my last commit: wrong preprocessor directive.

- Check for __ANDROID__ in addition to ANDROID macro.

- Check for __ANDROID__ in addition to ANDROID macro.

Posted to c-ares list by Wayne.

- Fix for Android to disable useless arpa/nameser.h.

- Fix for Android to include sys/select.h for fd_set.

Yang Tse (17 Mar 2012)
- ares_data.c: some NAPTR related fixes

Daniel Stenberg (16 Mar 2012)
- port numbers: convert them to network order!

When the config options ARES_OPT_UDP_PORT or ARES_OPT_TCP_PORT are used, make sure to convert them to network byte order!

Bug: http://c-ares.haxx.se/mail/c-ares-archive-2012-02/0004.shtml

- white space cleanup

- Keep code within 80 columns

- Removed funny spaces after open paren and before closing paren

- [Poul Thomas Lomholt brought this change]

get_iphlpapi_dns_info: fix buffer overrun

I experienced a buffer overrun exception in c-ares on Windows and tracked it down to be an error in the calculation of the 'left' variable in get_iphlpapi_dns_info().

I changed the variable type of 'left' to a _signed_ type because of the subtraction arithmetic; not sure if a long is the best choice

- Merge pull request #7 from saghul/naptr

Added support for parsing NAPTR records

saghul (23 Feb 2012)
- Added support for parsing NAPTR records
Yang Tse (19 Jan 2012)
- ares_init.c: fix compiler warning on winsock builds

- configure: libtool 1.5 tweaks

Daniel Stenberg (19 Dec 2011)
- ares_timeout.3: fix the NAME section

It was clearly a copy n’ paste error

Yang Tse (27 Sep 2011)
- [Albert Chin brought this change]

configure - m4: make CURL_CHECK_DEF ignore leading whitespace on symbol def

When using Sun C compiler the preprocessor somehow inserts an extra space in front of replaced symbol, breaking CURL_CHECK_DEF macro. To workaround this, macro CURL_CHECK_DEF now ignores all leading whitespace in front of symbol substitution result.

- ares_init.c: fix segfault triggered in ares_init_options() upon previous failure of init_by_defaults() and incomplete cleanup there.

- ares_process.c: fix compiler warning

- fix MSVC compiler warning 'conditional expression is constant'

- setup_once.h cleanup and sync

- [Denis Bilenko brought this change]

ares_getnameinfo: fix random results with c-ares 1.7.5

In ares_getnameinfo memcpy did not copy enough bytes, causing it to return arbitrary memory contents as a result.

- warnings: fix another 'conversion may lose significant bits' compiler warning

- ares_dns.h: adjust DNS__16BIT and DNS__32BIT macro definitions

Fixing compiler warnings existing definitions triggered on these.

- ares_destroy.c: fix segfault in ares_destroy_options()

Daniel Stenberg (21 Aug 2011)
- ares_parse_srv_reply: silence compiler warnings
... by adding ugly typecasts.

- CHANGES: generate from script

The CHANGES file is now generated automatically with 'git2changes.pl', invoked by the maketgz script which is used to build release archives.

The former human edited CHANGES file was renamed to CHANGES.0 in git.

Yang Tse (21 Aug 2011)
- Makefile.netware: SIZEOF_SHORT definition

- warnings: fix some 'conversion may lose significant bits' compiler warnings

- configure: fix symbol hiding usability check

A more thorough test is done now in order to determine visibility attribute usability, given that some compilers don't support visibility attribute on all configurations.

Daniel Stenberg (16 Aug 2011)
- 1.7.6: start working...

Version 1.7.5 (16 Aug 2011)

Daniel Stenberg (16 Aug 2011)
- CHANGES: synced for 1.7.5 release

- RELEASE-NOTES: synced with bb4096e0f00

Jakub Hrozek (15 Aug 2011)
- Only fall back to AF_INET searches when looking for AF_UNSPEC addresses

Yang Tse (10 Aug 2011)
- [Gisle Vanem brought this change]

ares_iphlpapi.h: Watcom C fix

Added "!defined(_WS2DEF_)") since Watcom doesn't have a per type guard for the typedefs 'CSADDR_INFO' (that MingW has) or 'SOCKET_ADDRESS' (that MSVC has). But we can use the header-guard for <ws2def.h> instead.

- [Gisle Vanem brought this change]

Makefile.Watcom:
* The 'NTDDI_VERSION' needs to be raised to 0x05010000 in order for SOCKADDR_STORAGE etc. to be typedefed.
* Replaced `-dUSE_WATT32' with `-dWATT32'.
* Added $(DEMOS) to the 'all' target and removed the 'demos' target to be consistent with e.g. Makefile.msvc etc.
* 'ENABLE_IPV6' is no longer used. Hence removed the '%use_ipv6' construct.
* object-file order seems to be important (Watcom v.19). Hence 'ares_getopt.obj' must be put after the .obj that references getopt().

- cares-compilers.m4: CARES_CONVERT_INCLUDE_TO_ISYSTEM adjustments

Add CARES_CHECK_COMPILER as a requirement.

Ensure macro does nothing unless GNU_C or CLANG compiler is used.

This should allow usage of this macro in unforeseen placements.

- config-win32.h: comments adjustments - followup

- config-win32.h: comments adjustments

Daniel Stenberg (5 Aug 2011)
- [Tom Hughes brought this change]

ares_parse_a_reply: fix memleak

Yang Tse (29 Jul 2011)
- cares-functions.m4 serial # bump

- Revert "configure: additional flag checks for fcntl() and socket()"

This reverts commit 5f2a3b0e48f26d24cb1fe8ea0dcecb92d417debf7.

- configure: additional flag checks for fcntl() and socket()

- xc-translit.m4 fix quoting

- configure: avoid direct usage of AS_TR_* macros

- xc-translit.m4 provides transliteration macros with well defined behavior.

Jakub Hrozek (15 Jun 2011)
- Revert "Only fall back to AF_INET searches when looking for AF_UNSPEC addresses"

This reverts commit b5823d65706af687c0e5110af80cfdcd068997d.

This patch was not reviewed properly before pushing

- Revert "Do not use sized constants in public headers"
This reverts commit 22c01e96f7b2ae9923e1baa50bfe3c0d22297a7d.

This is a Red Hat specific patch that does not belong into upstream

- Use correct sizeof in ares_getnameinfo()
- Do not leak rr_name on failures inside ares_parse_ptr_reply
- Do not leak rr_name on failures inside ares_parse_a_reply
- Do not leak rr_name on failures inside ares_parse_aaaa_reply
- Do not leak rr_name on failures inside ares_parse_ns_reply
- Fix incorrect sizeof() in ares_save_options
- Fix incorrect allocation in ares_parse_ptr_reply()
- Only fall back to AF_INET searches when looking for AF_UNSPEC addresses
- Do not use sized constants in public headers

Daniel Stenberg (13 Jun 2011)
- [Jakub Hrozek brought this change]

ares_free_hostent(NULL) should be a noop

Yang Tse (8 Jun 2011)
- configure: fix recvfrom 5th arg type qualifier detection (followup)
- configure: fix recvfrom 5th arg type qualifier detection

Additionally remove whitespace from EOL

Daniel Stenberg (4 Jun 2011)
- strlen: use size_t to receive the return

Yang Tse (4 Jun 2011)
- xlc: avoid preprocessor definition usage when linking
- ares_nowarn: icc 9.1 workaround
- ares_nowarn: header inclusion fix
- ares_init: make ares_private.h last included header again
- compiler warning: fix
Fix compiler warning: conversion may lose significant bits

- compiler warning: fix

Fix compiler warning: variable was set but never used

Fix compiler warning: clobber ignored

- ares_iphlpapi: fix compiler warnings

- winsock: compilation fixes

Provide winsock iphlpapi alternative definitions to prevent compilation failures when using a variety of winsock header implementations.

Daniel Stenberg (17 May 2011)
- [David Stuart brought this change]

IPV6-on-windows: find DNS servers correctly

- man pages: docs for the c-ares utility programs

- ares_parse_ns_reply.c: remove CVSism

Yang Tse (27 Mar 2011)
- build: fix header inclusion

- getservbyport replacement for Win CE

- renamed getplatform() to ares__getplatform() to avoid namespace pollution

- configure: fix libtool warning

Recent versions of libtool are now tracing usage of AC_CONFIG_MACRO_DIR macro and warn heavily when not used in configure script along with ACLOCAL_AMFLAGS in Makefile.am. So in order to make libtool happy while keeping backwards compatibility this is added.

- adig: RFC4034 resource record type detection

Can be tested with: adig -s 8.8.8.8 -t ANY example.com

- nameser.h: RFC4034 resource record type definitions

- build: move platform stuff to ares_platform.c and ares_platform.h

- build: find out windows platform using GetVersionEx()
- build: use getenv() replacement function for systems which lack it

- setup_once: system error codes for Windows CE

- ares_search: use ERRNO macro for portability sake

- System's errno.h inclusion cleanup follow-up.

System's errno.h is conditionally included from setup_once.h

- Windows CE specific adjustment

All versions of Windows CE support Winsock 1.1

- System's errno.h inclusion cleanup.

System's errno.h is conditionally included from setup_once.h

- ares_init: fix gethostname error detection on winsock platforms

- configure: re-enable temporarily disabled detection of system's inet_ntop()

Detection was temporarily disabled in commit 674e044cceb21f2f63537da53565f9e868f

Daniel Stenberg (15 Mar 2011)
- configure: stop using the deprecated AM_INIT_AUTOMAKE syntax

- [Gisle Vanem brought this change]

Watt-32: use errno

Make sure Watt-32 programs use 'errno' even on Win32 targets

Guenter Knauf (18 Feb 2011)
- Removed commented CLFAGS no longer needed.

- Fixed CFLAGS for NetWare.

Added -m32 to enable compilation with x86_64 compilers; added conditional to set -fpcc-struct-return only for gcc compiler.

Daniel Stenberg (18 Feb 2011)
- [Gisle Vanem brought this change]

Watt32: fix server init

Somewhere in the process, programs using the Watt-32 tcp/ip stack stopped working.
- [Dima Tisnek brought this change]

config_sortlist: (win32) missing else

Without an else there, contents of "pat" that could have been successfully set just above, may be clobbered by successive unsuccessful calls to "xxx_pton" or "ip_addr".

Yang Tse (17 Jan 2011)
- Makefile.msvc: add a couple of VS version strings
- Makefile.msvc: add a couple of VS version strings
- build: add install target to Makefile.msvc

Daniel Stenberg (27 Dec 2010)
- ares_set_servers_csv: remove unused variables
- init_by_resolv_conf: fix compiler warnings

The code received the return codes in the 'status' variable without using it. Instead we just ignore those particular errors.

- getv4: Value stored to 'dst' is never read
- advance_tcp_send_queue: avoid NULL ptr dereference

If given a too large 'num_bytes' value, it would cause a NULL ptr dereference. Instead the code will now break out of the loop at the end of the list.

- [Peter Pentchev brought this change]

configure: fix a bashism

- cleanup: avoid unsafe typecasts

Avoid the risk of reading 16bit data from an unaligned address by using a macro that is adapted for this.

- [Stefan Bhler brought this change]

ares_expand_name: Fix encoded length for indirect root

Yang Tse (18 Dec 2010)
- build: add some explicit file references to VS project files
- config-win32: provide HAVE_ASSERT_H definition

- build: include ares_nowarn in sample program VS project files

- build: include ares_nowarn among SAMPLESOURCES and SAMPLEHEADERS

- configure: temporarily disable detection of system's inet_ntop()

This is done to allow compilation of ares_inet_ntop() by some daily builds picky compilers that otherwise do not need this function.

- changes: mention last fix

- ares_inet_ntop: remove definition and usage of macro SPRINTF

Existing definition of SPRINTF always resulted in sprintf() being used, and sprintf() returning ‘int’ is already used throughout the library.

- ares_inet_ntop: reapply changes from previous c-ares version (III)

  - Replace ‘u_char’ with ‘unsigned char’.
  - Replace ‘u_int’ with ‘unsigned int’.
  - use macros ERRNO and SET_ERRNO() for errno handling.

- ares_inet_ntop: reapply changes from previous c-ares version (II)

  - Remove resid.
  - Adjust header file inclusions.
  - ares_inet_ntop used only on systems without a proper inet_ntop function.

- ares_inet_ntop: reapply changes from previous c-ares version (I)

  - Replace tabs with spaces.
  - Use ANSI C style for function declarations and definitions.
  - Use sizeof with parentheses.

- ares_inet_ntop: fix off by one error triggering out of bounds write

ares_inet_ntop would trigger an out of bounds write when the representation of the address required 15 characters, due to not taking in account null termination character.

Full import of inet_ntop.c from bind-9.5.3rc1 to pull additional fixes.

- ares_nowarn: add conditional inclusion of assert.h header

- fix compiler warning: conversion may lose significant bits
- ares_inet_net_pton: fix non-rejection of some malformed literals

ares_inet_net_pton would return wrong values when excessively large, and invalid, netmasks are used. Fixes are from bind-9.5.3rc1, issue also described in the WLB-2008080064 advisory.

- setup_once: provide ISASCII macro

- configure: inet_net_pton function check adjustments

Define HAVE_INET_NET_PTON only when system's inet_net_pton function is IPv6 capable and is not affected by the WLB-2008080064 advisory.

HAVE_INET_NET_PTON_IPV6 is no longer defined nor used.

- ares_init: fix detection of semicolon comments in resolv.conf

File resolv.conf may either use a hash '#' or a semicolon ';' character as an indication that the rest of the line is a comment. This fixes not recognizing the semicolon as a valid comment indicator in resolv.conf.

- version: start working on 1.7.5

Version 1.7.4 (8 Dec 2010)

Daniel Stenberg (8 Dec 2010)
- release-preps: CHANGES and RELEASE-NOTES synced

- ares_set_local_*: added in 1.7.4, not before

Yang Tse (3 Dec 2010)
- build: provide SIZEOF_SIZE_T definition for non-configure builds

- build: config.dos renamed to config-dos.h

- build: provide SIZEOF_SIZE_T netware definition

- ares_gethostbyaddr: fix compiler warning: conversion may lose significant bits

- configure: undo using autobuilds to temporarily verify strict aliasing warnings.

- fix compiler warning: rounding, sign extension, or loss of accuracy may result

Daniel Stenberg (2 Dec 2010)
- [Ben Noordhuis brought this change]

ares_parse_a_reply: fix CNAME response parsing
Reply to a CNAME query doesn't contain addresses, causing ares_parse_a_reply() to bail out with ARES_ENODATA

Bug: http://groups.google.com/group/nodejs/browse_thread/thread/a1268c9ea5e9ad9b

Yang Tse (1 Dec 2010)
- fix compiler warning: conversion may lose significant bits
- atoi: remove atoi usage
- ares_init: fix compiler warning: conversion may lose significant bits
- configure: fix autoconf warning
- inet_pton: fix compiler warning
- configure: use autobuilds to temporarily verify strict aliasing warnings.

Temporarily, When cross-compiling with gcc 3.0 or later, enable strict aliasing rules and warnings. Given that cross-compiled targets autobuilds do not run the test-suite, there is no risk of running code that violates strict aliasing rules

- ares_getnameinfo: Partially revert commit 85520d66e0ac7ac73411bc25e98769a88b2f

Upon socket address family and length validation failure return ARES_ENOTIMP in callback again, this is the error code documented in man page and used mostly all over the library.

- ares_getnameinfo: Validate socket address family and length.

Validate socket address family and that the socket address length is appropriate for the specified family. Failure is reported with ARES_EBADFAMILY in callback.

- ares_getnameinfo: fix two compiler warnings

- Added another VS10 version string
- Fix GCC 4 compiler warning 'dereferencing type-punned pointer might break strict-aliasing rules'.
- Revert commit 494274e653936335c255a47599970de3df21e7c4
- configure: fix autoconf 2.68 warning: no AC_LANG_SOURCE call detected in body
- Fix compiler warning: array subscript has type 'char'
- Fix GCC 4 compiler warning 'dereferencing type-punned pointer might break strict-aliasing rules'.
- Revert following commits:
The purpose of the whole patch was to silence a compiler warning triggered with GCC 4 on file ares_process.c. The specific compiler warning was 'dereferencing type-punned pointer might break strict-aliasing rules'.

A simpler patch will follow to equally silence the warning.

- ares_options: reorder header inclusions to make inclusion of ares_private.h the last included one again.

Daniel Stenberg (12 Nov 2010)
- [Patrik Thunstrom brought this change]

adig: fix NAPTR parsing

I ran across a small "issue" in your adig example.

It is simply the last part of the NAPTR record, the replacement element, which is not a string, as currently handled in adig, but a domain name.

- ares_save_options: assignments instead of memcpy

- init_by_options: don't copy an empty sortlist

If there aren't any sort items to copy, don't bother. Without this little precaution it would do a malloc(0) which causes undefined behaviors and is frowned upon by curl's memdebug-system.

Guenter Knauf (3 Oct 2010)
- Minor Watcom makefile tweaks.

Daniel Stenberg (30 Sep 2010)
- [Mike Crowe brought this change]

Fix lookup with HOSTALIASES set.

ares__read_line returns ARES_EOF when it reaches the end of the file. This will happen every time when reading to the end of the HOSTALIASES file. Unfortunately single_domain treats this error as being fatal.

Signed-off-by: Mike Crowe <mac@mcrowe.com>

Ben Greear (24 Aug 2010)
- Add missing break that caused get_ares_servers to fail.
Yang Tse (11 Aug 2010)
- configure: werror related adjustments

Guenter Knauf (8 Aug 2010)
- Added copyright string to ares_version.h and make use of it in other files.
- Block created ares_build.h for NetWare to avoid usage from other platforms.
- Fix to overwrite default libname.
- Some more Watcom makefile massage ...
- Some more Watcom makefile massage ...

Ben Greear (4 Aug 2010)
- sock-addr-storage: Detect and deal with lack of ss_family member.

AIX, at least, does not have sockaddr_storage.ss_family member.
Detect this in the configure logic and use proper #ifdefs in the
ares_process logic.

Guenter Knauf (3 Aug 2010)
- Added Watcom makefile based on libcurl's Makefile.Watcom.

Ben Greear (31 Jul 2010)
- typo: Fix compile bug for platforms that don't have sockaddr_storage.

Bug was introduced by me in previous commit.

Guenter Knauf (3 Aug 2010)
- Added Watcom makefile based on libcurl's Makefile.Watcom.

Ben Greear (31 Jul 2010)
- typo: Fix compile bug for platforms that don't have sockaddr_storage.

Bug was introduced by me in previous commit.

Signed-off-by: Ben Greear <greearb@candelatech.com>
Tested-by: Tor Arntsen <tor@spacetec.no>

Daniel Stenberg (31 Jul 2010)
- ares_set_servers_csv: use ISDIGIT
The IS*() set of macros are preferred to the regular is*() functions as they help us avoid the most common pitfalls.

Ben Greear (30 Jul 2010)
- cast arg to isdigit to int

Looks like it might silence a warning on Netware build.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- remove all uses of uint32_t

Previous fix forgot a few.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- fix signed v/s unsigned casts warning in ares_gethostbyaddr.c

Signed-off-by: Ben Greear <greearb@candelatech.com>

- local-bind-fixup: Fix inet_pton warning.

Conditionally include <arpa/inet.h> for inet_pton headers.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- build: Enable compiling with -Werror.

This helps find compile warnings because they simply break the build.

To use:
./configure --enable-warnings --enable-werror

Signed-off-by: Ben Greear <greearb@candelatech.com>

- ipv6: Fix some build issues related to the local-bind feature.

Signed-off-by: Ben Greear <greearb@candelatech.com>

Guenter Knauf (29 Jul 2010)
- Replaced uint32_t with unsigned int to fix broken builds on a couple of platforms.

Daniel Stenberg (18 Jul 2010)
- [Ben Greear brought this change]

local-bind: Support binding to local interface/IPs
Add 3 new functions to set the local binding for the out-going socket connection, and add ares_set_servers_csv() to set a list of servers at once as a comma-separated string.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- version: now start on 1.7.4

- [Andrew C. Morrow brought this change]

  fix memory leak in ares_getnameinfo

Version 1.7.3 (11 Jun 2010)

Daniel Stenberg (11 Jun 2010)
- changelogs: updated for 1.7.3

- [BogDan Vatra brought this change]

  init: allow c-ares to work on Android OS

- changelog: fill in the 1.7.2 changes

- added another pdf to ignore

Yang Tse (11 Jun 2010)
- add ares_parse_mx_reply.c to VS dsp file

Daniel Stenberg (10 Jun 2010)
- tarball: add $(CSOURCES) $(HHEADERS) to EXTRA_DIST

  It's not clear to me why we need this, but we apparently may otherwise not get all files bundled in the dist tarball.

- version: start working on 1.7.3

Version 1.7.2 (10 Jun 2010)

Daniel Stenberg (10 Jun 2010)
- RELEASE-NOTES: 1.7.2 details added

- [Jakub Hrozek brought this change]

  ares_init: Last, not first instance of domain or search should win

- style: make code less than 80 columns wide
Yang Tse (31 May 2010)
- [Tor Arntsen brought this change]

improve alternative definition of bool to use enum instead of unsigned char

- fix VS2010 compiler warnings

Daniel Stenberg (18 Apr 2010)
- [Jrmy Lal brought this change]

added ares_parse_mx_reply

- repair the file mode

- remove all $Id$ lines

- remove all .cvsignore files

- spell fix

reported by Gregor Jasny on the mailing list

- [Peter Pentchev brought this change]

Fix a couple of typos and grammar nits.

- ignore the GPG signature files too

- start the journey towards 1.7.2

- no longer CVS tagging

- ignore generated PDFs

Version 1.7.1 (23 Mar 2010)

Daniel Stenberg (23 Mar 2010)
- 1.7.1

- made README the primary readme file

... and did README.cares to contain a historic reason etc.

- s/CVS/git

- git now, not CVS

- ignore lots of generated files
- [Daniel Johnson brought this change]

Fix warnings for clang

Yang Tse (17 Mar 2010)
- replaced intel compiler option -no-ansi-alias with -fno-strict-aliasing
- update outdated serial number
- fix compiler warning
- watt32 compilation fix
- Added another VS10 version string
- fix line break
- removed usage of 's6_addr', fixing compilation issue triggered with no longer using 'in6_addr' but only our 'ares_in6_addr' struct

Daniel Stenberg (5 Mar 2010)
- Daniel Johnson provided fixes for building with the clang compiler

Yang Tse (5 Mar 2010)
- Added IPv6 name servers support

Gisle Vanem (5 Mar 2010)
- Ops!. Readded ares_nowarn.h.
- Added ares_nowarn.c.

Yang Tse (28 Feb 2010)
- Added SIZEOF_INT and SIZEOF_SHORT definitions for non-configure systems
- Added ares_nowarn.* to VC6 project file
- Added SIZEOF_INT definition
- fix compiler warning
- fix compiler warning
- fix compiler warning

Daniel Stenberg (17 Feb 2010)
- ares_reinit()
- To allow an app to force a re-read of /etc/resolv.conf etc, pretty much like the res_init() resolver function offers

- Tommie Gannert pointed out a silly bug in ares_process_fd() since it didn't check for broken connections like ares_process() did. Based on that, I merged the two functions into a single generic one with two front-ends.

Yang Tse (30 Dec 2009)
- VMS specific preprocessor symbol checking adjustments

- Mention last changes

- Fix configure_socket() to use ares_socket_t instead of int data type.

- Where run-time error checks enabling compiler option /GZ was used it is now replaced with equivalent /RTCsu for Visual Studio 2003 and newer versions.

- Compiler option /GX is now replaced with equivalent /EHsc for all versions.

- Ingmar Runge noticed that Windows config-win32.h configuration file did not include a definition for HAVE_CLOSESOCKET which resulted in function close() being inappropriately used to close sockets.

Daniel Stenberg (30 Nov 2009)
- start working on 1.7.1

Version 1.7.0 (27 Nov 2009)

Yang Tse (27 Nov 2009)
- Preserve empty line following last target

- Larry Lansing fixed ares_parse_srv_reply to properly parse replies which might contain non-SRV answers, skipping over potential non-SRV ones such as CNAMEs.

- When using icc, compile with -fpic and link with intel dynamic libraries.

- Added 'currently' in italics to insist on transient situation.

- Fix language

- Daniel wants upcoming release to be 1.7.0

- Mention last changes

- Removed from external interface preprocessor symbol definition for CARES_HAVE_ARES_FREE_DATA. Current functionality of ares_free_data() makes it unnecessary.
- Added README.msvc

- Changed c-ares naming conventions when using MSVC as described in README.msvc

- Mention other recent changes

- Jakub Hrozek renamed addrttl and addr6ttl structs to ares_addrttl and ares_addr6ttl in order to prevent name space pollution, along with necessary changes to code base and man pages. This change does not break ABI, there is no need to recompile existing applications. But existing applications using these structs with the old name will need source code adjustments when recompiled using c-ares 1.6.1.

- Jakub Hrozek fixed more function prototypes in man pages to sync them with the ones declared in ares.h

- Make configure remove the ares_build.h file included in distribution tarballs.

- Fix macro redefinition.

- Fix name space pollution.

- Allow using different extra import libraries for debug and release builds.

- Add manifest stuff to msvc makefile

- Sync man page with reality

- Add missing external API decoration for ares_set_socket_callback()

- Add ares_free_data() man page.

- Provide in external interface preprocessor symbol definitions for CARES_HAVE_ARES_FREE_DATA as an indication of function availability.

- Remove typecast

- Fix comment

- Add ares_data.c and ares_data.h

- Jakub Hrozek modified ares_parse_srv_reply() and ares_parse_txt_reply() API to return a linked lists of results. These were also modified to internally use the ares_data memory struct and as such its result must be free'ed with ares_free_data().

- Initial support for the generic ares_free_data() function that will allow
applications to free memory allocated and returned by some c-ares funtions.

- Make usage of calloc()'s arguments consistent with rest of code base

- workaround icc 9.1 optimizer issue

- Add icc fvisibility bug test

- Fix icc 9.0 compiler warning: external definition with no prior declaration

- Fix three var names

- Add check for assert.h header file

- getaddrinfo is fully thread safe on solaris versions which implement the function even when h_errno is not a macro.

The h_errno macro test now only done on systems for which there is no hard coded knowledge about getaddrinfo's thread safeness.

- Remove files generated on previous buildconf/configure run

- Remove enable-thread / disable-thread configure option. These were only placebo options. The library is always built as thread safe as possible on every system.

- Refactor how preprocessor symbol _THREAD_SAFE definition is done.

- Assume that getaddrinfo is thread safe, unless hard coded knowledge says the contrary or h_errno is not defined.

- Related with the threadsafe capability of getaddrinfo:

- Constantine Sapuntzakis reported that Darwin 6.0 a.k.a. MAC OS X 10.2 and newer have a threadsafe getaddrinfo.

- Fix Dragonfly BSD triplet detection.

- In case the hard-coded knowledge says that getaddrinfo is threadsafe, an additional check is done to verify that h_errno is also defined. If h_errno isn't defined, we finally assume that it isn't threadsafe. Jamie Lokier provided the inspiration for this extra check.

- AIX 5.2 and newer have threadsafe getaddrinfo.

Add some comments to better understand what the regex's pretend to achieve.

- HP-UX 11.11 and later have threadsafe getaddrinfo
- Check if getaddrinfo is threadsafe when function check allows it to be used

- Renamed fpGetNetworkParams and fpSystemFunction036 to avoid namespace pollution with static library

- Add kernel32.lib

- Mention last changes

- Reinstate copyright symbol lost in previous commit

- Make some strings different in resource file for debug or release builds

- Ignore more subdirs

- Fix compiler warning: conditional expression is constant

- Sync linker and resource compiler options with Makefile.msvc

- Follow Makefile.msvc subdirectory naming scheme, and sync compiler options

- Updated MSVC makefile that allows building dynamic and static c-ares libraries in debug and release flavours.

  Additionally each of the three sample programs is built against each of the four possible c-ares libraries, generating all this a total number of 12 executables and 4 libraries.

- Test for USE_WINSOCK since it is more restrictive than WIN32

- Make header inclusion depend on HAVE_*_H definition

- Remove unneeded preprocessor directives

- Adjust c-ares include paths for memory tracking enabled (--enable-curldebug) builds

- source files used by sample programs

- Renamed c-ares setup.h to ares_setup.h

- Adjust include paths to take in account that currently:

  c-ares with --enable-curldebug uses memdebug.h from libcurl's lib subdirectory.

  memdebug.h needs access to libcurl's setup.h from libcurl's lib subdirectory and also needs access to libcurl's generated curl_config.h

- Undo old temporary change once used for testing purposes
- Mention many changes

- Mention --enable-symbol-hiding configure option

- Symbol hiding configure options renamed to the hopefully less ambiguous --enable-symbol-hiding and --disable-symbol-hiding as well as related macro names and some internal variables used for them.

Related configuration file preprocessor symbols named to CARES_SYMBOL_HIDING and CARES_SYMBOL_SCOPE_EXTERN.

- Header inclusion depending on HAVE_* symbol.
  Fix two typos.

- Comparison of the Initial revision of this file with ares_parse_a_reply.c shows that this one is actually a modified copy of ares_parse_a_reply.c.

In order to comply with ares_parse_a_reply.c's M.I.T. license, the old 1998 M.I.T. copyright notice is now also preserved in this file the same as it is done in other ares_parse_* .c files.

- Add CVS Id tag.
  Fix identation of some license lines.

- Add CVS Id tag.

- Fix comment

- In no particular order, changed/fixed all of the following in ares_parse_txt_reply() current version:

  - Fixed a couple of potential double free's.

  - Fixed memory leaks upon out of memory condition.

  - Fixed pointer arithmetic.

  - Setting nttxreply to zero upon entry for all failure cases.

  - Changed data type to size_t for variables substr_len, str_len and the length member of ares_txt_reply struct.

  - Avoided a couple of memcpy() calls.

  - Changed i data type to unsigned int to prevent compiler warnings.

  - Adjusted a comment.
- Use ARES_SUCCESS literal for successful completion.

- Added CVS Id tag.

- Add c-ares DLL resource file to distribution archive

- ignore files

- Empty subdir

- Updated MSVC 6.0 workspace and project files that allows building dynamic and static c-ares libraries in debug and release flavours.

  Additionally each of the three sample programs is built against each of the four possible c-ares libraries, generating all this a total number of 12 executables and 4 libraries.

Daniel Stenberg (29 Oct 2009)
- no need to check for NULL pointers before dereferencing, as the pointers MUST be valid and they are dereferenced further down in the function unconditionally!

  - shorten the descriptions somewhat

  - update to the new struct name

  - Jakub Hrozek added ares_parse_txt_reply() for TXT parsing

  - use 'ares_srv_reply' for proper name-spacing

Yang Tse (29 Oct 2009)
- Add reference for ares_parse_srv_reply.pdf

- Add reference for ares_parse_srv_reply docs

- External API function linkage decoration adjustment

  - External API function linkage decoration adjustment

- Initial step towards the ability to reduce c-ares exported symbols based on the ‘visibility’ attribute for GNUC and __global for Sun compilers, taking also in account __declspec function decoration for Win32 and Symbian DLL’s.

  Introducing configure options --enable-hidden-symbols and --disable-hidden-symbols following libcurl's naming.

- Fix comment
- Fix spelling

- Fix Pelles C Win32 target compilation issues

- John Engelhart noticed an unreleased problem relative to a duplicate ARES_ECANCELLED error code value and missing error code description.

- Fix compiler warning: local variable may be used without having been initialized

- Use *_CHECK_PATH_SEPARATOR_REQUIRED to ensure that *_CHECK_PATH_SEPARATOR is only expanded and included once in the configure script.

- Our _AS_PATH_SEPARATOR_PREPARE override is now m4_defun'd instead of m4_define'd due to autoconf 2.64 m4_require'ing it in _AS_SHELL_SANITIZE indirectly through _AS_PATH_WALK.

- Fix compiler warning: argument is incompatible with corresponding format string conversion

- Fix potential out-of-bounds read

- Fix compiler warning: loop without body

- Fix compiler warning

- Fix compiler warning

- Fix compiler warning

- Fix compiler warning: addition result could be truncated before cast to bigger sized type

- Overhauled ares__get_hostent()

- Fixing out of bounds memory overwrite triggered with malformed /etc/hosts file.
  - Improving parsing of /etc/hosts file.
  - Validating requested address family.
  - Ensuring that failures always return a NULL pointer.
  - Adjusting header inclusions.

- Fix ssize_t redefinition errors on WIN64 reported by Alexey Simak

- more files to ignore

- Check if _REENTRANT definition is required to make errno available as a preprocessor macro.

- Attempt to silence bogus compiler warning: "Potential null pointer dereference"
- ignore more files

Gisle Vanem (7 Sep 2009)
- Suppress warnings about unused prototypes in Watt32 and Win32 programs.

- Update email address.

- Update my email address. Add ares_config.h as dependency for 'make depend'.

Yang Tse (6 Sep 2009)
- T_SRV portability check

Gunter Knauf (5 Sep 2009)
- changed includes to match style how we do with all other *.c files.

- changed u_int16_t to unsigned short because it is the only place within ares and curl where such a type would be used;
  also it broke many autobuilds. We should probably introduce an ares_port_t if we want to use a type here.

Gisle Vanem (5 Sep 2009)
- Replace 'uint16_t' with 'u_int16_t' since the latter is used in ares.h.

- Added 'ares_parse_srv_reply.obj'. Added definition of 'u_int16_t'. This is I don't like; we should not depend on such non-universal types in a public header. But this is just a quick fix.

Daniel Stenberg (4 Sep 2009)
- - Jakub Hrozek added ares_parse_srv_reply() for SRV parsing

Steinar H. Gunderson (27 Aug 2009)
- Support lookup of IPv4 literals in ares_gethostbyname(), even when the address family is set to AF_INET6.

Gisle Vanem (3 Aug 2009)
- Remove call to LoadLibrary(). (leftover from debugging).

- Fix bad sentence.

Daniel Stenberg (3 Aug 2009)
- - Timo Teras changed the reason code used in the resolve callback done when ares_cancel() is used, to be ARES_ECANCELLED instead of ARES_ETIMEOUT to better allow the callback to know what's happening.

- - Joshua Kwan fixed the init routine to fill in the defaults for stuff that fails to get inited by other means. This fixes a case of when the c-ares init fails when internet access is fone.

Gunter Knauf (16 Jul 2009)
- test if adding ../lib to includes can fix the current break ...
- renamed generated config.h to ares_config.h in order to avoid clashes when libcurl is used with other projects which also have a config.h.

Yang Tse (21 Jun 2009)
- Refactor how libraries are checked for connect() function, follow-up.

- Refactor how libraries are checked for connect() function, and check for connect() as it is done for other functions.

Gisle Vanem (20 Jun 2009)
- Remove unneeded defines.

- Use select_s() and not select().

Yang Tse (19 Jun 2009)
- sclose() function-like macro definition used to close a socket, now solely based on HAVE_CLOSESOCKET and HAVE_CLOSESOCKET_CAMEL config file preprocessor definitions.

- add CloseSocket camel case function check

- check for socket() and closesocket() as it is done for other functions

- Remove HAVE_CONFIG_H definition from here, CFLAGS from common.dj already defines it.

- initial step towards decoupling c-ares from libcurl for DOS

- don't ignore these subdirs, they must be removed first

- Remove DEBUGBUILD symbol definition, is not required for programs using the library.

- DEBUGBUILD symbol definition for debug builds

- ignore some subdirs

- fix comment

- Try to make more clear that --enable-curldebug has nothing to do with --enable-debug for this library.

- Revert last change, it is inappropriate.

Gisle Vanem (12 Jun 2009)
- Replace CURLDEBUG with DEBUGBUILD.

Yang Tse (11 Jun 2009)
- when running automake copy missing files instead of symlinking them
- Adjusted to take in account that...

With the curl memory tracking feature decoupled from the debug build feature, CURLDEBUG and DEBUGBUILD preprocessor symbol definitions are used as follows:

CURLDEBUG used for curl debug memory tracking specific code (--enable-curldebug)

DEBUGBUILD used for debug enabled specific code (--enable-debug)

- c-ares' --enable-debug --enable-curldebug decoupling follow-up

- mention last changes

- Remove buildconf.bat from release and daily snapshot archives.

buildconf.bat is only for CVS tree builds.

- Ensure that buildconf.bat does nothing unless it is used with a CVS checkout.

- CVS-INFO file only present in CVS tree, never in release nor daily snapshot archives. Used as a sentinel file in buildconf.bat to differentiate CVS builds.

Gisle Vanem (8 Jun 2009)
- Update comment about "ML". Removed "-D_USE_32BIT_TIME_T" (not a requirement).

Yang Tse (8 Jun 2009)
- just comment it out

- For debugging purposes...

Disable the `-export-symbols-regex` to discard this as the origin of link failures related with shared libraries and non-GNU linkers.

- c-ares Makefile.am back to using $(top_builddir) for *_LDADD

- c-ares' -no-undefined and --enable-curldebug adjustments

- Use relative path to built c-ares tree libtool library

- John E. Malmberg noticed that the configure script was failing to detect the timeval struct on VMS when building with _XOPEN_SOURCE_EXTENDED undefined due to definition taking place in socket.h instead of time.h

- Fix compiler warning: out of bound access

- fix compilation on AIX

- c-ares' --enable-curldebug adjustments
- Remove temporarily introduced memory leak.

- Temporarily introduce a memory leak to verify curl debug memory tracking works.

- Allow curl debug memory tracking when building a shared library on systems which support external, undefined, symbols in shared libraries.

Daniel Stenberg (26 May 2009)
- language fix

Yang Tse (26 May 2009)
- Make ares_init(), ares_dup() and ares_init_options() return ARES_ENOTINITIALIZED if library initialization has not been performed calling ares_library_init().

- c-ares's --enable-curldebug configure option decoupled from c-ares's --enable-debug

- Prevent copying 'sourced' manpages for build targets that don't use them.

Daniel Stenberg (23 May 2009)
- minor edits

Yang Tse (21 May 2009)
- Include .pdf versions of c-ares man pages in distribution tarball.

- Allow generation of .html and .pdf versions of c-ares man pages.

Gisle Vanem (21 May 2009)
- $OBJ_DIR)/ares_getopt.o must be cleaned explicitly.

Yang Tse (20 May 2009)
- Mention last changes

- Initial ares_library_cleanup(3) man page

- Update man page

- Update man page

- Initial ares_library_init(3) man page attempt

- Force revision update, to force CVS to update the $Id date string format

- Add same copyright notice as other c-ares files

- Fix case

- Remove run-time requirement for advapi32.dll since
c-ares can work even with no advapi32.dll at all.

- Intentionally avoid checking if the address of SystemFunction036, a.k.a. RtlGenRandom, has been located or not. This function is only available on WinXP and later. When unavailable c-ares uses portable rand() function.

- Provide in external interface preprocessor symbol definitions for CARES_HAVE_ARES_LIBRARY_INIT and CARES_HAVE_ARES_LIBRARY_CLEANUP to ease the use of new capabilities.

- Move ares_version() prototype to ares.h

- Introduction of ares_library_init() and ares_library_cleanup()

- Introduction of ares_library_init() and ares_library_cleanup()

- remove outdated comment

- Fix preprocessor conditional expression

- fix *__SOCKLEN_T definitions for remaining targets

- *__SOCKLEN_T definitions for OS400 already fixed

- fix *__SOCKLEN_T definitions for SYMBIAN32 and VMS targets

Daniel Stenberg (11 May 2009)
- Gregor Jasny made c-ares link with libtool ‘s -export-symbols-regex option to only expose functions starting with ares_.

Yang Tse (11 May 2009)
- Remove experimental check. Currently there's no need for it.

- Fix an m4 overquoting triggering a spurious ‘AS_TR_CPP’ symbol definition attempt in generated config.h

- Proper naming for the experimental compiler test and moved to *-compilers.m4

- Moved *_CHECK_COMPILER_HALT_ON_ERROR and *_CHECK_COMPILER_ARRAY_SIZE_NEGATIVE to *-compilers.m4 along with other *_CHECK_COMPILER_*

- fix *__SOCKLEN_T definitions for OS400 and generic GCC targets

- fix *__SOCKLEN_T definitions for MVS and 370 targets

- fix *__SOCKLEN_T definitions for several Windows target tool-chains

- HP-UX’s X/Open network library requirement check follow-up
- HP-UX's X/Open network library requirement check follow-up

- Use build-time configured ares_socklen_t instead of socklen_t

- David McCready's "TPF-platform specific changes to various files" patch follow-up

Daniel Stenberg (1 May 2009)
- s/libcurl/c-ares

- version number typo fix

Yang Tse (1 May 2009)
- David McCready's "TPF-platform specific changes to various files" patch

- Check definition of _XOPEN_SOURCE_EXTENDED with the compiler

- Check if X/Open network library is required

- cope with ares_build.h and ares_rules.h follow-up

- Added some notes regarding ares_build.h

- fix EOL

- fix EOL

- cope with ares_build.h and ares_rules.h

- buildconf.bat for CVS-tree c-ares

- Use 'unsigned int' instead of size_t attempting to avoid header inclusion

- NetWare LibC's getpeername() third argument data type is size_t

- Remove temporary debug tracing for ares_socklen_t Windows targets

- ares_socklen_t follow-up

- ares_build.h Windows follow-up

- Add temporary debug tracing for ares_socklen_t Windows targets

- ares_build.h NetWare follow-up

- ares_build.h NetWare attempt

- Initial step towards a configure time ares_socklen_t definition
- ignore stamp-h*

- Added CARES_INCLUDES_SYS_TYPES

- Initial step towards a configure time curl_socklen_t definition

- avoid use of alloca()

- Moved potential inclusion of system's malloc.h and memory.h header files to setup_once.h. Inclusion of each header file is based on the definition of NEED_MALLOC_H and NEED_MEMORY_H respectively.

- ignore

Gisle Vanem (18 Apr 2009)
- Added `DHAVE_LIMITS_H`.

Yang Tse (17 Apr 2009)
- remove compiler options used while debugging the icc 9.1 optimizer issue

- moved HAVE_LIMITS_H to common defines

- Set HP-UX compiler warning level back to the one that exposes the socklen_t issue on this platform.

- HAVE_LIMITS_H definition for NetWare CLIB

- use HAVE_LIMITS_H symbol to protect limits.h inclusion

- fix compiler warning: implicit conversion shortens 64-bit value into a 32-bit value

- s/u_long/unsigned long/

- Do not halt compilation when using VS2008 to build a Windows 2000 target

- ignore

Phil Blundell (3 Feb 2009)
- * February 3 2009 (Phil Blundell)
- If the server returns garbage or nothing at all in response to an AAAA query, go on and ask for A records anyway.

Daniel Stenberg (31 Jan 2009)
- - ares_gethostbyname() now accepts `AF_UNSPEC` as a family for resolving either AF_INET6 or AF_INET. It works by accepting any of the lookups in the hosts file, and it resolves the AAAA field with a fallback to A.
Gisle Vanem (18 Jan 2009)
- fopen() returns error in 'errno' even on Windows.
  So don't use ERRNO (GetLastError()). Trimmed trailing blanks.

- Constified some arguments in local functions.

Daniel Stenberg (14 Jan 2009)
- - ares.h no longer uses the HAVE_STRUCT_IN6_ADDR define check, but instead it
  now declares the private struct ares_in6_addr for all systems instead of
  relying on one possibly not present in the system.

Phil Blundell (13 Jan 2009)
- - ares__send_query() now varies the retry timeout pseudo-randomly to avoid
  packet storms when several queries were started at the same time.

Daniel Stenberg (11 Jan 2009)
- - Phil Blundell added the internal function ares__expand_name_for_response()
  that is now used by the ares_parse_*_reply() functions instead of the
  ares_expand_name() simply to easier return ARES_EBADRESP for the cases where
  the name expansion fails as in responses that really isn't expected.

Gunter Knauf (30 Dec 2008)
- added HAVE_SOCKADDR_IN6 SIN6 SCOPE_ID to ares Makefile.netware and sync'd with other
  Makefile.netware.

Daniel Stenberg (9 Dec 2008)
- use the new URL

- start over on the 1.6.1 release...

Version 1.6.0 (9 Dec 2008)

Daniel Stenberg (9 Dec 2008)
- add space

Gisle Vanem (9 Dec 2008)
- Fix for Win32 targets using Watt-32.

Dan Fandrich (9 Dec 2008)
- C89 compilers (like Minix' ACK) only need to handle 31 functions arguments
  so split a long sprintf into two calls to get below that number.

Gisle Vanem (8 Dec 2008)
- Added needed defines for Watt-32 on Windows.

- Undefine 'optarg', 'optind' and 'opterr' when using Watt-32
  (to get correct linkage on Windows).
- ares_writev() shall not be exported when using Watt-32 (has writev).

 Added _USE_32BIT_TIME_T to avoid runtime warning. Applies to VC-2008+ only.

- Removed unneeded defines HAVE_SIGNAL_H, HAVE_SIG_ATOMIC_T, RETSIGTYPE and HAVE_PROCESS_H.

Daniel Stenberg (4 Dec 2008)
- the initial version of the ares_set_socket_callback man page

- Gregor Jasny provided the patch that introduces ares_set_socket_callback(),
  and I edited it to also get duped by ares_dup().

Dan Fandrich (4 Dec 2008)
- Bring the sys/include.h include test in line with curl's.

Daniel Stenberg (3 Dec 2008)
- Let's not call ares_save_options() deprecated just yet

- Introduce ares_dup(3) and new thoughts about API/ABI and how to move forwards.
  Also discussed on the ml.

Dan Fandrich (2 Dec 2008)
- Make sure sys/socket.h is included before netinet/in.h (required by
  OpenWatcom C, and condoned by SUS)

Daniel Stenberg (1 Dec 2008)
- minor indent fix

- Convert the public config struct to the same binary size/construct as in the
  latest releases to remain ABI compatible.

Gisle Vanem (29 Nov 2008)
- Added `-DHAVE_GETHOSTNAME`.

Dan Fandrich (29 Nov 2008)
- Make sure sys/socket.h is included before netinet/in.h (required by
  OpenWatcom C)

- Netware has gethostname()

- Fixed a couple of typos

- Don't tweak the HAVE_* macros when using autoconf

- Make use of gethostname() conditional on it being available
- Only set TCP_NODELAY when it exists

Daniel Stenberg (28 Nov 2008)
- updated with changes, preparing for a release soon

Yang Tse (26 Nov 2008)
- Gerald Combs fixed a bug in ares_parse_ptr_reply() which would cause a buffer to shrink instead of expand if a reply contained 8 or more records.

- Brad Spencer provided changes to allow buildconf to work on OS X.

- In preparation for the upcoming IPv6 nameservers patch, the internal ares_addr union is now changed into an internal struct which also holds the address family.

Dan Fandrich (20 Nov 2008)
- Make checking for struct ifreq a prerequisite for setting HAVE_IOCTL_SIOCGIFADDR since it's needed to use SIOCGIFADDR and Watcom C doesn't currently define it.

Daniel Stenberg (20 Nov 2008)
- use unsigned short better intead of mixing with ints to prevent compiler warnings

- please the picky compilers by staying with short as the data we get is short only

- - Brad Spencer brought the new function ares_gethostbyname_file() which simply resolves a host name from the given file, using the regular hosts syntax.

Yang Tse (19 Nov 2008)
- user provided PATH_SEPARATOR always overrides auto-detected one

- attempting to keep lines below 80 chars

- provide a common PATH_SEPARATOR check method which is required by upcoming work to support the broadest range of Autoconf versions

- check for gethostbyaddr and gethostbyname as it is done for other functions

- Make configure script check if ioctl with the SIOCGIFADDR command can be used, and define HAVE_IOCTL_SIOCGIFADDR if appropriate.

- fix leftover from previous commit

- fix inet_pton() runtime configure check

- trim down configure script size
Daniel Stenberg (15 Nov 2008)
- Fixed an OOM condition reported by Jim Meyering

Yang Tse (14 Nov 2008)
- fix typo affecting inclusion of <arpa/inet.h> in configure
  checks for inet_ntoa_r() inet_ntop() and inet_pton()

- #include <string.h> in the getaddrinfo() runtime check for the memset() prototype

- fix symbol definition check for fcntl.h inclusion

- Refactor configure script detection of functions used to set sockets into
  non-blocking mode, and decouple function detection from function capability.

Daniel Stenberg (1 Nov 2008)
- Added a TODO file to list things we want changed, added or fixed.

  - Carlo Contavalli added support for the glibc "rotate" option, as documented
    in man resolv.conf:

    causes round robin selection of nameservers from among those listed. This
    has the effect of spreading the query load among all listed servers, rather
    than having all clients try the first listed server first every time.

    You can enable it with ARES_OPT_ROTATE

Yang Tse (1 Nov 2008)
- Adjust WIN32 freeaddrinfo, getaddrinfo and getnameinfo availability

- WIN32 availability of freeaddrinfo, getaddrinfo and getnameinfo functions is quite
  convoluted, compiler dependant and in some cases even build target dependant.

- check for freeaddrinfo() at configuration phase

- update aclocal file serial number

- remove verification of the freeability of the addrinfo struct pointer members

- fix comment

- make CHECK_FUNC_GETADDRINFO_UNFREEABLE_AI_ADDR
  and CHECK_FUNC_GETADDRINFO_UNFREEABLE_AI_CANONNAME
  internal to CHECK_FUNC_GETADDRINFO

- fix leftover

- Initial attempt to detect at configuration time if the getaddrinfo()
function returns an addrinfo with an unfreeable ai_canonname member ptr.

- Initial attempt to detect at configuration time if the getaddrinfo() function returns an addrinfo with an unfreeable ai_addr member ptr.

- icc adjustments:
  Select ANSI C89 dialect plus GNU extensions, again.

- some more temporary magic for the icc seg-fault issue

- icc permanent adjustment:
  Select precise floating-point model, otherwise doubles are less than 64-bit wide

icc test adjustment:
Select c89 dialect

- icc adjustments:
  Enable more icc warnings.
  Optimization disabling options used only for icc 9.1

- #include <stdlib.h> for exit() prototype

- some more temporary magic for the icc seg-fault issue

- remove from configure.ac temporary magic for the icc seg-fault issue

- some more temporary magic for the icc seg-fault issue

- Charles Hardin patch:
  - handles the EINPROGRESS for UDP connects
  - uses closesocket instead of close on some paths that were noticed

- some more temporary magic for the icc seg-fault issue

- messages initially intended only for debug purposes, now become permanent since these are extremely useful when compiler rejects a set of options.

- fix compiler warning

- fix missing double-quotes

Daniel Stenberg (17 Oct 2008)
- Charles Hardin made adig support a regular numerical dotted IP address for the
  -s option as well.

Yang Tse (16 Oct 2008)
- some more temporary magic for the icc seg-fault issue

- Ensure that shell variable contents which have active meaning
to the shell echo command are not interpreted when trying to
remove extra whitespace from shell variable content.

- Adjust Watcom C warnings:
  Disable warnings on structure members padding.

- With this change Solaris target builds will now be done with _REENTRANT defined.

- Adjust Tiny C basic options:
  Remove -b from debug-enabled configuration, as Tiny C might have
  been built without the memory and bounds checker support.

- Adjust GCC warnings:
  Better disable following warnings when cross-compiling with a gcc older
  than 3.0, to avoid warnings from third party system headers:

  -Wmissing-declarations
  -Wmissing-prototypes
  -Wunused
  -Wshadow

  - fix syntax error

- Initial attempt to detect Watcom C compiler

- make naming scheme more consistent across whole file

- Adjust GCC warnings:

  Disable following warnings when cross-compiling with a gcc older
  than 3.0, to avoid warnings from third party system headers:

  -Wmissing-prototypes
  -Wunused
  -Wshadow

- Adjust GCC --enable-warnings:
Do not enable -pedantic when cross-compiling with a gcc older than 3.0, to avoid warnings from third party system headers.

- adjust SGI MIPSpro C detection

- LCC compiler adjustments:

  Highest warning level is double -A, next is single -A. Due to the big number of warnings these trigger on third party header files it is impractical for us to use any of them here. If you want them simply define it in CPPFLAGS.

  - remove extra space

  - split SGI compiler check. One for MIPS C and another for MIPSpro C

  - LCC compiler adjustments:

    Warning level reduced from double -A to single -A

  - Initial attempt to detect Tiny C compiler

  - Initial attempt to detect LCC compiler

  - 1) fix bug in CONVERT_INCLUDE_TO_ISYSTEM

    2) Disable SGI remark: controlling expression is constant

  - simplify SGI C compiler check

  - HP C adjustments:

    Due to the HP-UX socklen_t issue it is insane to use the +w1 warning level. It generates more than 1100 warnings on socklen_t related statements.

    Until the issue is somehow fixed we will just use the +w2 warning level.

  - Add debug tracing for COMPILER_WORKS_IFELSE

  - configure will also warn on 'strict compiler warning' rejected options

  - convert rejected compiler options messages into a warnings

  - remove extra whitespace from string in SGI C check

  - oops

  - Initial attempt to detect SGI C compiler
- HP C adjustments:

Disallow run-time dereferencing of null pointers.

Disable some remarks:

#4227: padding struct with n bytes to align member.

#4255: padding size of struct with n bytes to alignment boundary.

- improve presentation of accepted/rejected debug/optimizer options

- refactoring of COMPILER_BASIC_OPTS

- Initial attempt to detect SUN C compiler

- Initial attempt to detect HP C compiler

- fix compiler warning: 'dot_4' may be used uninitialized in this function

- adjust ICC_windows settings

- fix VAR_STRIP

- Sync up with reality

- Initial attempt to support configure's --(dis|en)able-optimize option to specify dis(activation) of compiler optimizations.

If option is specified, it will be honored independant of the --(dis|en)able-debug option.

- fix comment

- Initial attempt to support configure's --(dis|en)able-warnings option to specify dis(activation) of picky compiler warnings.

If option is specified, it will be honored independant of the --(dis|en)able-debug option.

If option is not specified, it will follow --(dis|en)able-debug setting, whose default is disabled if not specified.

- fix compiler warning: dereferencing type-punned pointer will break strict-aliasing rules

- now compiler warnings are activated for all gcc builds, not only debug ones.
- Use CFLAGS for icc linker options instead of LDFLAGS, otherwise gethostbyname() is not detected.

- use ac_cv_compiler and ac_cv_compiler_num to keep compiler ID and version number

- Temporary icc adjustment:
  
  Disable floating point optimizations

- HAVE_INET_PTON will only be defined when an IPv6 capable working inet_pton function is available.

- HAVE_INET_NTOP will only be defined when an IPv6 capable working inet_ntop function is available.

- ntoa() and inet_ntoa_r() no longer used

- icc adjustments for icc 9.0 and prior versions:
  
  Disable remark #279: controlling expression is constant

    Remark triggered mostly on va_arg() and FD_ZERO() macros.

- attempt to make work the gethostname function
  
  check for winsock build target configurations

Gisle Vanem (21 Sep 2008)
- Added HAVE_NETDB_H, HAVE_ARPA_INET_H, HAVE_STRCASECMP and HAVE_STRNCASECMP.

Yang Tse (19 Sep 2008)
- icc adjustments:
  
  Disable remark #981: operands are evaluated in unspecified order

    Function calls which are triggering this remark, today, do not depend on the order of evaluation of its arguments.

  Disable remark #1469: "cc" clobber ignored

    Remark triggered on htons() and ntohs() due to glibc header files.

- icc adjustments
  
  - fix netdb.h prerequisite inclusion
  
  - improve detection of getservbyport_r()
- On Linux Intel's icc uses gcc's header files, so
  we select ANSI C89 dialect plus GNU extensions.

- improve detection of gethostname()

- NetWare builds include "nameser.h" from the c-ares subdir

- include <strings.h>

- Sync up with reality

- adjust inclusion of "nameser.h"

- reorder some lines in file

- code cleanup

- NetWare seems to have writev()

- rearrange to allow internal/private use of ares_writev to any system
  that lacks the writev function.

- NetWare CLIB target has stricmp() and strnicmp()

- include header file only when available

- rearrange to allow internal/private use of ares_strcasecmp to any system that
  lacks the strcasecmp function.

- improve detection of:
  strcasecmp()
  strcmpi()
  stricmp()
  strncasecmp()
  strncmpi()
  strnicmp()

- *** empty log message ***

Gisle Vanem (12 Sep 2008)
- djgpp does have strdup().

Yang Tse (12 Sep 2008)
- change CRLF into LF line endings

- strdup() clone for systems/configurations which lack it

- move inclusion of ares_private.h last
- icc adjustments

- icc adjustments

- Select strict ANSI C89 conformance for icc

- remove unnecessary typecasting of malloc()

- remove unnecessary typecasting of realloc()

Daniel Stenberg (29 Aug 2008)
- we start over working towards 1.5.4

Version 1.5.3 (29 Aug 2008)

Daniel Stenberg (29 Aug 2008)
- Version 1.5.3

- added the three people from RELEASE-NOTES and sorted the list alphabetically

Yang Tse (27 Aug 2008)
- Don't abort configuration if recvfrom() is not available.

- Functionality only possible if recvfrom() is available.

- George Neill's fix acountry sample application compilation failure.

- Brad House's validation that DNS response address matches the request address

- fix the output name

- Get rid of ENABLE_64BIT symbol definition and usage.

Improve HAVE_LONGLONG symbol description.

- Export 'ares_process_fd' too.

Gisle Vanem (16 Aug 2008)
- Ops, remove 'use_vc'.

- Support Watt-32 under Win32.

Yang Tse (10 Aug 2008)
- Fix: Remove now this SIZEOF_CURL_OFF_T symbol definition.

This should have been done with the initial 64-bit curl_off_t patch.
- Improve CURL_CHECK_DEF

- Fix IBM C and DEC/Compaq C compiler detection

- Initial support of curlbuild.h and curlrules.h which allows
to have a curl_off_t data type no longer gated to off_t.

- The minimum autoconf version required for this file is 2.50

Avoid dot notation in aclocal serial file number, use a single number now.

Daniel Stenberg (4 Aug 2008)
- - Fix by Tofu Linden:

The symptom:
* Users (usually, but not always) on 2-Wire routers and the Comcast service
and a wired connection to their router would find that the second and
subsequent DNS lookups from fresh processes using c-ares to resolve the same
address would cause the process to never see a reply (it keeps polling for
around 1m15s before giving up).

The repro:
* On such a machine (and yeah, it took us a lot of QA to find the systems
that reproduce such a specific problem!), do 'ahost www.secondlife.com',
then do it again. The first process's lookup will work, subsequent lookups
will time-out and fail.

The cause:
* init_id_key() was calling randomize_key() *before* it initialized
key->state, meaning that the randomness generated by randomize_key() is
immediately overwritten with deterministic values. (/dev/urandom was also
being read incorrectly in the c-ares version we were using, but this was
fixed in a later version.)
* This makes the stream of generated query-IDs from any new c-ares process
be an identical and predictable sequence of IDs.
* This makes the 2-Wire's default built-in DNS server detect these queries
as probable-duplicates and (erroneously) not respond at all.

Yang Tse (4 Aug 2008)
- Autoconf 2.62 has changed the behaviour of the AC_AIX macro which we use.
Prior versions of autoconf defined _ALL_SOURCE if _AIX was defined. But,
autoconf 2.62 version of AC_AIX defines _ALL_SOURCE along with other four
preprocessor symbols no matter if the system is AIX or not. To keep the
traditional behaviour, as well as an uniform one, across autoconf versions
AC_AIX is replaced with our own internal macro.

- Adjust DEC/Compaq C compiler settings.
- Another AC_TRY_LINK conversion to AC_LINK_IFELSE. Proper definition of HAVE_function if function is found deeper.

- Sync up with reality

- Rename reentrant.m4 to avoid filename clash.

- Add file version serial number that might be used by 'aclocal' and others.

Keep the '#' character as the first one on the line.

- Update copyright year.

- Sync comment with reality.

- Reinstate the 'aclocal -I m4' in buildconf and 'ACLOCAL_AMFLAGS = -I m4' way of including our local m4/reentrant.m4 file. This even takes care of including the file in the distribution tarball.

- Add quoting for the AC_DEFINE arguments.

- Also remove the whitespace.

- Also remove the extra quoting.

- Replace some '@%:@' quadigraphs by its actual representation '#'.

This quadigraph used before a C preprocessor 'define' directive could be fooling M4, when processing this file, and make it think that the line contains a pure M4 'define' macro.

- Tests done using 'aclocal -I m4' in buildconf and 'ACLOCAL_AMFLAGS = -I m4' in top Makefile.am triggered a problem that prevented aclocal from running successfully on SunOS 5.10 with GNU m4 1.4.5 and GNU Autoconf 2.61

A tarball which reproduces mentioned problem is the one dated July-28-2008 http://cool.haxx.se/curl-daily/curl-7.19.0-20080728.tar.gz

We actually don't need all the bells and whistles that the above mechanism provides. We only need to include our m4/reentrant.m4 file in acinclude.m4 so here we go with this simpler mechanism.

- for debugging purposes show ACLOCAL_FLAGS

- These lines were unintentionally removed in previous commit

- Partially undo change that prevented SED, GREP, EGREP and AR from being changed by libtool or autoconf.
- Assert that SED and GREP are set

- Require autoconf 2.57 or newer

- When calling aclocal, user defined ACLOCAL_FLAGS will now precede ours.

- move ACLOCAL_AMFLAGS after AUTOMAKE_OPTIONS

- setup.h handles definition of _REENTRANT based on NEED_REENTRANT definition which might be defined in config.h or config-*h files

- Remove explicit inclusion of our m4 files first. It was interesting as a test, but it breaks aclocal execution on some systems, with the following error:

  Can't locate object method "rel2abs" via package "File::Spec" at /usr/local/bin/aclocal line 256.

- Another step towards detecting if _REENTRANT is already defined or actually needed, and being able to define it if appropriate for further configure tests as well as for the generated config file.

- Explicitly include our m4 files first. This might minimize the impact that other package's underquoted m4 function definitions have on ours.

- Add a 3 argument check for getprotobyname_r

- move reentrant.m4 to the m4 subdirectory to avoid infinite loop inclusion problem

- add checks for strtok_r and getprotobyname_r

- Another step towards detecting if _REENTRANT is already defined or actually needed, and being able to define it if appropriate for further configure tests as well as for the generated config file.

Introduced reentrant.m4 intended for our reentrant related autotools/m4 macros.

- reorder argument number detection for getservbyport_r to actually verify if the test is properly working

- Make sure that configure process tests are done with the same _REENTRANT setting as the one actually used when finally building the library.

- Change recvfrom's sixth argument data type to the 'historically standard' 'int' data type for systems where this sixth argument is prototyped as a void pointer.

Start of thread: http://curl.haxx.se/mail/lib-2008-07/0153.html

- use prototypes to improve getservbyport_r detection
- Adjust recvfrom's sixth arg data type definition for NetWare (LIBC)

- Use the sreadfrom() wrapper to replace recvfrom() in our code.

- when recvfrom prototype uses a void pointer for arguments 2, 5 or 6 this will now cause the definition of RECVFROM_TYPE_ARG2_IS_VOID, RECVFROM_TYPE_ARG5_IS_VOID or RECVFROM_TYPE_ARG6_IS_VOID, as appropriate.

- Adjust DEC/Compaq C compiler settings

- Added "pointer to void" as another data type to check for the sixth argument of function recvfrom as a result of the info additionally logged when running on a Solaris system.

The compiler error showed that the prototype being used on Solaris was the one declared in line 427 of "/usr/include/sys/socket.h" as:

function(int, 
        pointer to void, 
        unsigned int, 
        int, 
        pointer to struct sockaddr, 
        pointer to void) returning int

- Adjust DEC/Compaq C compiler settings

- RECVFROM_TYPE_ARG2, RECVFROM_TYPE_ARG5 and RECVFROM_TYPE_ARG6 are now defined to the data type pointed by its respective argument and not the pointer type.

- Configure process now checks availability of recvfrom() socket function and finds out its return type and the types of its arguments. Added definitions for non-configure systems config files, and introduced macro sreadfrom which will be used on udp sockets as a recvfrom() wrapper.

- Initial DEC/Compaq C compiler detection and flags

- Improved configure detection of number of arguments for getservbyport_r

- Allow --enable-largefile and --disable-largefile configurations. Configure process no longer needs nor checks size of curl_off_t. Library will now be built with _REENTRANT symbol defined.

- fix compiler warning

- since Jun 30 2008 MAXHOSTNAMELEN define is no longer used

- fix c-ares version reported in generated libcares.pc file when building from CVS tree.
- egrep and ar are also mandatory

Daniel Stenberg (3 Jul 2008)
- just to clarify that c-ares actually have some ipv6 support

- ares_gethostbyname() fallback from AAA to A records with CNAME present

- Phil Blundell: If you ask ares_gethostbyname() to do an AF_INET6 lookup and
  the target host has only A records, it automatically falls back to an
  AF_INET lookup and gives you the A results. However, if the target host has
  a CNAME record, this behaviour is defeated since the original query does
  return some data even though ares_parse_aaa_reply() doesn't consider it
  relevant. Here's a small patch to make it behave the same with and without
  the CNAME.

Yang Tse (2 Jul 2008)
- The configure process will now halt when sed or grep are unavailable

- fallback to gettimeofday when monotonic clock is unavailable at run-time

- IBM C/C++ compiler predefined macro check

- set earlier in configure process IBM compilers optimization flags

- make check message wording more precise

Daniel Stenberg (30 Jun 2008)
- As was pointed out to me by Andreas Schuldei, the MAXHOSTNAMELEN define is
  not posix or anything and thus c-ares failed to build on hurd (and possibly
  elsewhere). The define was also somewhat artificially used in the windows
  port. Now, I instead rewrote the use of gethostbyname to enlarge the host
  name buffer in case of need and totally avoid the use of the MAXHOSTNAMELEN
  define. I thus also removed the defien from the namser.h file where it was
  once added for the windows build.

  I also fixed init_by_defaults() function to not leak memory in case if
  error.

Yang Tse (29 Jun 2008)
- fix C style comment

- John Lightsey filed bug report #1999181: "CLOCK_MONOTONIC always fails on
  some systems" (http://curl.haxx.se/bug/view.cgi?id=1999181). The problem was
  that the configure script did not use the _POSIX_MONOTONIC_CLOCK feature test
  macro when checking monotonic clock availability. This is now fixed and the
  monotonic clock will not be used unless the feature test macro is defined
  with a value greater than zero indicating always supported.
- Modified configuration script to actually verify if the compiler is good enough at detecting compilation errors or at least it has been properly configured to do so. Configuration heavily depends on this capability, so if this compiler sanity check fails the configuration process will now fail.

- No longer break out of a shell "for" statement from inside AC_FOO_IFELSE macros, otherwise temp files are not removed.

Indentation adjustment.

Gunter Knauf (11 Jun 2008)
- enable additional CFLAGS from commandline.

Yang Tse (9 Jun 2008)
- fix pkg-config reporting of private libraries needed for static linking

- MSVC does build Windows native targets

- Brad House fixed a missing header file inclusion in adig sample program

Daniel Stenberg (29 May 2008)
- start working on 1.5.3

Version 1.5.2 (29 May 2008)

Daniel Stenberg (29 May 2008)
- 1.5.2

Yang Tse (26 May 2008)
- fix compiler warning: unreferenced formal parameter

Daniel Stenberg (23 May 2008)
- list all local sources the (demo) tools need, add a few missing scripts to the dist tarball and remove a two duplicate file names from EXTRA_DIST (most of it pointed out by Yang Tse)

- this is not used (anymore)

- make sure the configure.ac file with the correct version number is shipped in the tarball

Yang Tse (22 May 2008)
- MSVC6+ clean-up targets must also remove acountry.exe

- sync with reality

- fix: [action-if-found] part of AC_CHECK_TYPE macro cannot be quoted when empty
- fix: remove need and definition of HAVE_SOCKLEN_T symbol

- fix: socklen_t definition comment

- update several macros using AC_TRY_LINK with AC_LINK_IFELSE

- fix underquoting of AC_LANG_PROGRAM arguments

- if'def out private function ares__tvdiff(), it is not in use yet.

- update several macros using AC_TRY_LINK with AC_LINK_IFELSE

- fix socklen_t equivalent detection when cross compiling Windows target

- if WINSOCK2 API is used link with 'ws2_32', else

if WINSOCK API is used under WinCE link with 'winsock', else

if WINSOCK API is used link with 'wsock32'.

- on winsock systems linking is done using library 'ws2_32' when
  winsock2.h is available, and library 'winsock' is used when only
  winsock.h is available.

- minor change for wince-cegcc and wince-mingw32ce support

- millisecond resolution support followup

Gisle Vanem (15 May 2008)
- Replaced "-DHAVE_FIONBIO" with "-DHAVE_IOCTLSOCKET".
  Added "-DHAVE_GETTIMEOFDAY". Trimmed lines.

Yang Tse (15 May 2008)
- sync with reality

- remove compilation time generated files

- use same time source for timeout initialization and processing

- Improve toolchain detection for WinCE cross compilation:

When cross compiling WinCE with the arm-wince-cegcc-gcc C compiler
symbol __CEGCC__ is defined and the unix-like compatibility layer
is used. For our purposes this is not a native Windows build.

When cross compiling WinCE with the arm-wince-mingw32ce-gcc C compiler
symbol __MINGW32CE__ is defined and the unix-like compatibility layer
is not used. For our purposes this _is_ a native Windows build.

- skip checks for Windows specific header files
  when build target is not a native Windows one

- WinCE cross compilation adjustments:

  HAVE_WINSOCK2_H shall not be defined.
  HAVE_WS2TCPPIP_H shall not be defined.

Daniel Stenberg (13 May 2008)
- - Introducing millisecond resolution support for the timeout option. See
  ares_init_options()'s ARES_OPT_TIMEOUTMS.

Yang Tse (13 May 2008)
- also ignore this
  - also ignore this
  - ignore this compilation time generated files
  - don't keep in CVS this compilation time generated file

- add MSVC6 project for acountry sample program

- update MSVC6 projects to use the multithreaded DLL runtime library

- add MSVC6 project for acountry sample program

- skip libtool C++ preprocessor compiler and linker checks

- ignore libcares.pc

- configure script will now define HAVE_CLOCK_GETTIME_MONOTONIC symbol only
  when function clock_gettime() is available and the monotonic timer is
  also available. Otherwise, in some cases, librt or libposix4 could be used
  for linking even when finally not using the clock_gettime() function due
  to lack of the monotonic clock.

- fix syntax error: missing semicolon

- Add library checking for clock_gettime() support

- Use monotonic time source if available.

Daniel Stenberg (9 May 2008)
- Removed AC_PROG_CC_STDC again. It enforces C99/gnu99 standard which is too
  liberal for me. Also, autoconf 2.61 and earlier doesn't work with icc 10.1
for this macro. (2.62 confirmed to work though). See discussion on the mailing list starting here:

http://daniel.haxx.se/projects/c-ares/mail/c-ares-archive-2008-05/0001.shtml

- include strings.h (if available) for the strcasecmp() proto

- check for strings.h in configure and use it for the strcasecmp() proto

- adjusted to work with the updated configure.ac

- Sebastian made c-ares able to return all PTR-records when doing reverse lookups. It is not common practice to have multiple PTR-Records for a single IP, but its perfectly legal and some sites have those.

- Doug Goldstein provided a configure patch: updates autoconf 2.13 usage to autoconf 2.57 usage (which is the version you have specified as the minimum version). It's a minor change but it does clean up some warnings with newer autoconf (specifically 2.62).

Yang Tse (5 May 2008)
- Improved parsing of resolver configuration files

- make previous compiler warning fix more portable

- fix compiler warning: indirection to slightly different base types

- fix compiler warning: local variable may be used without having been initialized

- fix compiler warning: unreferenced formal parameter

- fix compiler warning: assignment within conditional expression

Daniel Stenberg (4 Apr 2008)
- Alexey Simak fixed the VC dsp file by adding the missing source file ares_expand_string.c

- Alexey Simak made adig support NAPTR records

- Eino Tuominen improved the code when a file is used to seed the randomizer

Yang Tse (29 Feb 2008)
- Force AIX xlc to fail and not generate object code if the source code has compiled with errors. This behaviour is needed for autoconf macros which rely on the ability to compile with or without errors, and is safer than xlc's default of failing only upon severe errors.

Gunter Knauf (27 Feb 2008)
- added get_ver.awk since c-ares is a standalone project, and should therefore also compile when cURL is absent.

- a couple of small fixes to the makefile:
  fixed comments; fixed INSTDIR define, simplified rules;
  changed to use get_ver.awk in current dir rather than the curl one.

- fixed linker def file for tools when compiled with gcc/nlmconv.

- added some files which were missing in release tarballs.

- updated copyright for new year.

Gisle Vanem (2 Jan 2008)
- Added '-d' option for Watt-32 debugging.

Yang Tse (18 Dec 2007)
- MSVC 9.0 (VS2008) does not support Windows build targets prior to WinXP,
  and makes wrong assumptions of build target when it isn't specified. So,
  if no build target has been defined we will target WinXP when building
  with MSVC 9.0 (VS2008).

Daniel Stenberg (11 Dec 2007)
- build acountry too

Gisle Vanem (11 Dec 2007)
- Added acountry.c.

- Added build of acountry.nlm.

- Added build of acountry.exe.

- Build acountry.exe. Added 'socklen_t' define.

- Another sample application that returns country-code and
  name from an IPv4-address or host-name. Using the service of
  countries.nerd.dk.

Daniel Stenberg (10 Dec 2007)
- grrr, the previous commit was meant to properly make sure that we don't
  link any executables when doing debug builds since they kind of assume
  symbols provided by libcurl, but it also wrongly included acountry.c

- when building

- build ahost and adig by default but don't install them

Gisle Vanem (10 Dec 2007)
- Fix for targets that do have 'struct in6_addr', but which doesn't
define 's6_addr' as a macro.

Yang Tse (3 Dec 2007)
- Fix three issues previous cleanup introduces.

Daniel Stenberg (3 Dec 2007)
- Erik Kline cleaned up ares_gethostbyaddr.c:next_lookup() somewhat
- Brad Spencer fixed the configure script to assume that there's no /dev/urandom when built cross-compiled as then the script cannot check for it.  
- the gethostbyname fix applied here as well
- fix next_lookup() to continue searching even if c-ares failed to load the /etc/hosts file, pointed out by Erik Kline: http://daniel.haxx.se/projects/c-ares/mail/c-ares-archive-2007-11/0027.shtml
- Remove the check for libdl since that isn't actually used and it causes warnings. Pointed out by Robin Cornelius.
- pkgconfig fix by Andreas Schuldei
- spellfix
- and we start on 1.5.2!

Version 1.5.1 (21 Nov 2007)

Daniel Stenberg (21 Nov 2007)
- change
- oops
- start working on 1.5.1 now

Version 1.5.0 (21 Nov 2007)

Daniel Stenberg (21 Nov 2007)
- this is what 1.5.0 is
- fill in missing copyrights

Gunter Knauf (18 Nov 2007)
- removed now obsolete defines;
  updated external library versions to latest.

Steinar H. Gunderson (16 Nov 2007)
- Fix a double free.

Yang Tse (15 Nov 2007)
- Needed now that in6_addr is referenced in ares.h

Steinar H. Gunderson (15 Nov 2007)
- When looking up in DNS and then in the hosts file, return the error code from DNS if both fail, instead of returning the error code from the hosts file, as today. Patch from the Google tree.

- Return TTL data from ares_parse_{a,aaaa}_reply, if the user is so inclined. Patch from the Google tree.

Yang Tse (15 Nov 2007)
- Define WIN32 when build target is Win32 API.
  This also defines it for WinCE even though it is a subset of WIN32.

- The only libraries actually needed for sample programs adig and ahost are ws2_32.lib and advapi32.lib

- MSVC versions prior to VS2005 do not complain about portable C functions

- Windows build targets have socklen_t definition in ws2tcpip.h but some versions of ws2tcpip.h do not have the definition. It seems that when the socklen_t definition is missing from ws2tcpip.h the definition for INET_ADDRSTRLEN is also missing, and that when one definition is present the other one is also available.

Gunter Knauf (22 Oct 2007)
- removed dependency on gettimeofday() since we use only 1 sec resolution here.

Yang Tse (8 Nov 2007)
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Gunter Knauf (22 Oct 2007)
- removed dependency on gettimeofday() since we use only 1 sec resolution here.

Yang Tse (20 Oct 2007)
- Fix compiler warning: conversion from "int" to "unsigned short" may lose significant bits

- Fix message shown when detecting icc version

- Avoid shadowing a global declaration

- Renamed a variable to avoid shadowing a global declaration

- Renamed internal function to avoid a variable shadowing it

- Fix compiler warning: feupdateenv is not implemented and will always fail. Specifically for Linux x86-64 with Intel's icc.

- Sync PLATFORM_AIX_V3 detection and CURL_CC_DEBUG_OPTS() icc warning level with libcurl's

- Fix compiler warning: conversion from "int" to "unsigned char" may lose significant bits
- actually sync with lib/setup_once.h

- sync with lib/setup_once.h

Steinar H. Gunderson (16 Oct 2007)
- Fix a bug where fallback from AF_INET6 to AF_INET would not work properly together with relative search; if you had a search path of .a.com and .b.com, and foo.a.com would return ARES_ENODATA and foo.b.com would return ARES_ENOTFOUND, the lookup would not properly retry with AF_INET as it forgot the first ARES_ENODATA.

Dan Fandrich (15 Oct 2007)
- Mention first version with CURLOPT_COPYPOSTFIELDS.
  Don't confuse NUL with NULL.

Gisle Vanem (8 Oct 2007)
- Added needed 'HAVE_-' defines.

- 'FD_CLOXEC' is meaningless on MSDOS/Watt-32.

Steinar H. Gunderson (4 Oct 2007)
- Removed a piece of redundant code (process_answer already takes care of it).

- Another timeout fix in ares_getnameinfo().

- Send the timeout count in ares_getnameinfo().

- Moved the NULL check for channel upwards in ares_destroy().

- Clarified the comment over ares_cancel.

Yang Tse (2 Oct 2007)
- Avoid a segfault when generating a DNS "Transaction ID" in internal function init_id_key() under low memory conditions.

- Add ares_llist.c and ares_llist.h to MSCV project file.

Daniel Stenberg (2 Oct 2007)
- Fixed the problem where next_lookup would use 'status' uninitialized. Now it gets passed the initial value as an argument.

Yang Tse (2 Oct 2007)
- Avoid inline C99ism, and move c-ares routines for managing doubly-linked lists.

Daniel Stenberg (1 Oct 2007)
- ares_strerror() segfaulted if the input error number was out of the currently supported range.
- Prevent ares_strerror() from segfaulting if an invalid error code is passed in as argument!

Yang Tse (30 Sep 2007)
- Fix compiler warning

- check availability of <netinet/tcp.h>

- improve portability, defining MAXDNAME and MAXCDNAME

Steinar H. Gunderson (30 Sep 2007)
- Fix a memory leak that I recently inadvertedly introduced.

- Use ISDIGIT instead of isdigit; fixes a gcc warning.

- Port the TCP socket fix made in ares_fds() to ares_getsock() as well.

- Previously, processing a large batch of timeouts was O(n^2) in the number of outstanding queries, and processing a DNS response packet was O(n) in the number of outstanding queries. To speed things up in Google, we added a few circular, doubly-linked lists of queries that are hash-bucketed based on the attributes we care about, so most important operations are now O(1).

It might be that the number of buckets are higher than most people would need, but on a quick calculation it should only be 100kB or so even on a 64-bit system, so I've let it stay as-is.

Gisle Vanem (29 Sep 2007)
- We should standardise on C comments.

- Fix compiler warning in setsockopt().

Steinar H. Gunderson (29 Sep 2007)
- TCP queries can time out too, not just UDP queries. (Patch from the Google tree.)

- Read and process as many packets as possible in read_udp_packets, to avoid having to run the entire event loop once per packet. (Patch from the Google tree.)

- There are two different places in write_tcp_data() that advance the send_queue; however, they are slightly different and only the first one properly uses a while loop. Consolidate both into a single function that DTTR. (Patch from the Google tree.)

- Reject names that are longer than 255 characters, to avoid problems with strict or buggy DNS server implementations. (Patch from the Google tree)

- In ares_mkquery, make sure we set buflen and buf to reasonable values if there's an error. (Patch from the Google tree)
- Be stricter about what's a valid IP address in fake_hostent. (Patch from the Google tree.)

- Handle the root of the DNS tree correctly in ares_expand_name.

Daniel Stenberg (28 Sep 2007)
- today's modifications by Steinar and me

- Bumped version to 1.5.0 for next release and soname bumped to 2 due to ABI and API changes in the progress callback (and possibly more coming up from Steinar)

Steinar H. Gunderson (28 Sep 2007)
- Unrevert previous 'missing' hunks. They were missing since the patch is still in for review :-)

- Yet more missing hunks... Nggh.

- Always register for TCP events even if there are no outstanding queries, as the other side could always close the connection, which is a valid event which should be responded to.

- Forgot to include a few hunks from ares_process.c earlier. Fixing now.

- Support a few more socket options, and refactor the option setting a bit. (Patch from the Google tree.)

- Make the query callbacks return the number of timeouts that happened during the execution of a query, and update documentation accordingly. (Patch from the Google tree.)

- Three fixes in one commit (sorry): a) Take care of the tcpbuf if it ends while queued for transmission, note broken servers and close them in the main loop, and store TCP socket generation number in order not to send the same query twice over the same socket.

- Don't skip a server if it's the only one. (Bugfix from the Google tree.)

Daniel Stenberg (27 Sep 2007)
- wrong, revert the previous "fix" and instead check that the fd_set pointer is non-NULL before we FD_CLR

- eek, fix the conditions to return on either problem instead of requiring both to occur

- Steinar H. Gunderson fixed: Correctly clear sockets from the fd_set on in several functions (write_tcp_data, read_tcp_data, read_udp_packets) so that if it fails and the socket is closed the following code doesn't try to use the file descriptor.

- Steinar H. Gunderson modified c-ares to now also do to DNS retries even when TCP is used since there are several edge cases where it still makes sense.

- Brad House provided a fix for ares_save_options(): Apparently I overlooked
something with the ares_save_options() where it would try to do a malloc(0) when no options of that type needed to be saved. On most platforms, this was fine because malloc(0) doesn't actually return NULL, but on AIX it does, so ares_save_options would return ARES_ENOMEM.

- added initial pkg-config file (attempt)

Gunter Knauf (20 Jul 2007)
- added curl include for debug builds.

Daniel Stenberg (14 Jul 2007)
- added another SEE ALSO

- Brad House's fix to hish a win32 compiler warning

- added Vlad's entire description of his valgrind fix

- Vlad Dinulescu fixed two outstanding valgrind reports

Gunter Knauf (8 Jul 2007)
- added better CodeWarrior detection.

- removed some obsolete include paths and defines.

- add test for gettimeofday() so that HAVE_GETTIMEOFDAY gets defined.

- although the check for HAVE_STRUCT_TIMEVAL solved the redefine it is incorrect; lets see if a check for HAVE_GETTIMEOFDAY also works; if gettimeofday() is present then we can assume we have the timezone struct too.

- added check for sys/param.h.

- trial to catch problem with Daniels cross-mingw ares builds.

- added NetWare CLIB-own header to solve gcc warnings.

- few minor changes to make ares compile for NetWare CLIB architecture.

- changed to build for CLIB / LIBC.

- sync'd with lib makefile changes: use var for awk; fixed RECV* / SEND* defines; debug var can be overwritten; added better compiler path handling.

Daniel Stenberg (8 Jun 2007)
- start working on 1.4.1

Version 1.4.0 (8 Jun 2007)
Daniel Stenberg (8 Jun 2007)
- 1.4.0 preps

- the revert

- Revered Ashish Sharma's multiple entries patch, as it caused memory madness

- minor edit since getting an ID seems pointless when failure happens

- fix the bad bad bad mess this caused on name resolves returning more than one name... Reported by James Bursa

- Brad Spencer found and fixed three flaws in the code, found with the new gcc 4.2.0 warning: -Waddress

- Brad House fixed VS2005 compiler warnings due to time_t being 64bit. He also made recent Microsoft compilers use _strdup() instead of strdup().

- Ashish Sharma provided a patch for supporting multiple entries in the /etc/hosts file. Patch edited for coding style and functionality by me (Daniel).

Found in path(s):
* /opt/cola/permits/1135382727_1613514269.04/0/c-ares-1-10-0-orig-1-tar-gz/c-ares-1.10.0/CHANGES
No license file was found, but licenses were detected in source scan.

" Copyright 1998, 2000 by the Massachusetts Institute of Technology.
" Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.
"
1.3896 xfsdump 3.1.7 1.el7

1.3896.1 Available under license:

This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

It was downloaded from ftp://oss.sgi.com/projects/xfs/download/

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Version 2.1, February 1999

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entire combination fits its criteria of freedom. The Lesser General 
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We call this license the "Lesser" General Public License because it 
does Less to protect the user's freedom than the ordinary General 
Public License. It also provides other free software developers Less 
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact
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That's all there is to it!

1.3906 python-requests 2.2.1-1ubuntu0.4

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Requests includes some vendorized python libraries to ease installation.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/math/MathPreconditions.java

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Hashing.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/base/MoreObjects.java

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jar/jersey/repackaged/com/google/common/cache/CacheBuilderSpec.java
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jar/jersey/repackaged/com/google/common/util/concurrent/AsyncFunction.java
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Jean-loup Gailly       Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
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   uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
   int rcount;
   int wcount;

#endif
#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

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  jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
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  jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
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  jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java
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1.3923 httpasyncclient 4.1.2

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1.3925 perl-text-unidecode 0.04-20.el7

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README for Text::Unidecode

Time-stamp: "2001-07-14 02:03:33 MDT"

Text::Unidecode

NAME

Text::Unidecode -- US-ASCII transliterations of Unicode text

SYNOPSIS

use utf8;
use Text::Unidecode;
print unidecode("\x{5317}\x{4EB0}\n"
  # those are the Chinese characters for Beijing
);
# That prints: Bei Jing

DESCRIPTION

It often happens that you have non-Roman text data in Unicode, but you can't display it -- usually because you're trying to show it to a user via an application that doesn't support Unicode, or because the fonts you need aren't accessible. You could represent the Unicode characters as "????????" or "\15BA\15A0\1610...", but that's nearly useless to the user who actually wants to read what the text says.

What Text::Unidecode provides is a function, `unidecode(...)' that takes Unicode data and tries to represent it in US-ASCII characters (i.e., the universally displayable characters between 0x00 and 0x7F). The representation is almost always an attempt at *transliteration* -- i.e., conveying, in Roman letters, the pronunciation expressed by the text in some other writing system. (See the example in the synopsis.)

See the POD for more information.

REQUIREMENTS

This module requires Perl 5.6.0 or higher. (Earlier Perls apparently lack the "use utf8" pragma that Text::Unidecode needs.) I have also observed that 5.6.0's Unicode support is shakey; strongly consider upgrading to 5.6.1 at least.

INSTALLATION

You install Text::Unidecode, as you would install any perl module library, by running these commands:

perl Makefile.PL
    make
    make test
    make install

If you want to install a private copy of Text::Unidecode in your home directory, then you should try to produce the initial Makefile with something like this command:

perl Makefile.PL LIB=~/perl
See perldoc perlmodinstall for more information on installing modules.

DOCUMENTATION

POD-format documentation is included in Unidecode.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

SUPPORT

Questions, bug reports, useful code bits, and suggestions for Text::Unidecode should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of Text::Unidecode is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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Found in path(s):
* /opt/cola/permits/1137275406_1614044597.36/0/perl-Text-Unidecode-0.04-20.el7-1.src.rpm-cosi-expand-archive-2vriqjMe/Text-Unidecode-0.04.tar.gz-cosi-expand-archive-0JwYO0Mk/Text-Unidecode-0.04/README
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Name: perl-Text-Unidecode
Version: 0.04
Release: 20% {?dist}
Summary: US-ASCII transliterations of Unicode text

Group: Development/Libraries
License: GPL+ or Artistic
URL: http://search.cpan.org/dist/Text-Unidecode/
Text::Unidecode provides a function, `unidecode(...)` that takes Unicode data and tries to represent it in US-ASCII characters (i.e., the universally displayable characters between 0x00 and 0x7F). The representation is almost always an attempt at *transliteration* -- i.e., conveying, in Roman letters, the pronunciation expressed by the text in some other writing system.
* Fri Jul 12 2013 Jitka Plesnikova <jplesnik@redhat.com> - 0.04-18
  - Update dependencies
  - Use DESTDIR rather than PERL_INSTALL_ROOT
  - Remove build root cleaning, BuildRoot definition and ¶%defattr

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.04-18
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Aug 08 2012 Jitka Plesnikova <jplesnik@redhat.com> - 0.04-17
  - Specify all dependencies

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.04-16
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Jun 08 2012 Petr Pisar <ppisar@redhat.com> - 0.04-15
  - Perl 5.16 rebuild

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.04-14
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Jun 17 2011 Marcela Malov <mmaslano@redhat.com> - 0.04-13
  - Perl mass rebuild

* Thu Jun 09 2011 Marcela Malov <mmaslano@redhat.com> - 0.04-12
  - Perl 5.14 mass rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.04-11
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Thu Dec 23 2010 Marcela Maslanova <mmaslano@redhat.com> - 0.04-10
  - 661697 rebuild for fixing problems with vendorach/lib

* Fri May 07 2010 Marcela Maslanova <mmaslano@redhat.com> - 0.04-9
  - Mass rebuild with perl-5.12.0

* Fri Dec 4 2009 Stepan Kasal <skasal@redhat.com> - 0.04-8
  - rebuild against perl 5.10.1

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.04-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Thu Feb 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.04-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Sat Feb 2 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.04-5
  - rebuild for new perl

* Wed Oct 17 2007 Tom "spot" Callaway <tcallawa@redhat.com> - 0.04-4.1
=head1 NAME

Text::Unidecode -- US-ASCII transliterations of Unicode text

=head1 SYNOPSIS

use utf8;
use Text::Unidecode;
print unidecode("\x{5317}\x{4EB0}\n"
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# That prints: Bei Jing

=head1 DESCRIPTION

It often happens that you have non-Roman text data in Unicode, but
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show it to a user via an application that doesn't support Unicode,
or because the fonts you need aren't accessible. You could
represent the Unicode characters as "??????" or
"\15BA\15A0\1610...", but that's nearly useless to the user who
actually wants to read what the text says.

What Text::Unidecode provides is a function, C<unidecode(...)> that
takes Unicode data and tries to represent it in US-ASCII characters
(i.e., the universally displayable characters between 0x00 and
0x7F). The representation is almost always an attempt at transliteration -- i.e., conveying, in Roman letters, the pronunciation expressed by the text in some other writing system. (See the example in the synopsis.)

Unidecode's ability to transliterate is limited by two factors:

=item * The amount and quality of data in the original

So if you have Hebrew data that has no vowel points in it, then Unidecode cannot guess what vowels should appear in a pronunciation. (If you have Hebrew data that has no vowel points in it, then Unidecode cannot guess what vowels should appear in a pronunciation. This is a specific application of the general principle of "Garbage In, Garbage Out").

=item * Basic limitations in the Unidecode design

Writing a real and clever transliteration algorithm for any single language usually requires a lot of time, and at least a passable knowledge of the language involved. But Unicode text can convey more languages than I could possibly learn (much less create a transliterator for) in the entire rest of my lifetime. So I put a cap on how intelligent Unidecode could be, by insisting that it support only context-sensitive transliteration. That means missing the finer details of any given writing system, while still hopefully being useful.

Unidecode, in other words, is quick and dirty. Sometimes the output is not so dirty at all: Russian and Greek seem to work passably; and while Thaana (Divehi, AKA Maldivian) is a definitely non-Western writing system, setting up a mapping from it to Roman letters seems to work pretty well. But sometimes the output is very dirty: Unidecode does quite badly on Japanese and Thai.

If you want a smarter transliteration for a particular language than Unidecode provides, then you should look for (or write) a transliteration algorithm specific to that language, and apply it instead of (or at least before) applying Unidecode.

In other words, Unidecode's approach is broad (knowing about dozens of writing systems), but shallow (not being meticulous about any of them).
FUNCTIONS

Text::Unidecode provides one function, `unidecode(...)`, which is exported by default. It can be used in a variety of calling contexts:

```perl
=item C<$out = unidecode($in);> # scalar context
This returns a copy of $in, transliterated.
=item C<$out = unidecode(@in);> # scalar context
This is the same as C<$out = unidecode(join '', @in);>
=item C@$out = unidecode(@in);> # list context
This returns a list consisting of copies of @in, each transliterated. This is the same as C@$out = map scalar(unidecode($_)), @in;>
=item C<unidecode(@items);> # void context
=item C<unidecode(@bar, $foo, @baz);> # void context
Each item on input is replaced with its transliteration. This is the same as C<for(@bar, $foo, @baz) { $_ = unidecode($_ ) }>
```

You should make a minimum of assumptions about the output of `unidecode(...)`. For example, if you assume an all-alphabetic (Unicode) string passed to `unidecode(...)` will return an all-alphabetic string, you're wrong -- some alphabetic Unicode characters are transliterated as strings containing punctuation (e.g., the Armenian letter at 0x0539 currently transliterates as `T`).

However, these are the assumptions you can make:

```perl
=item *
Each character 0x0000 - 0x007F transliterates as itself. That is, `unidecode(...)` is 7-bit pure.
=item *
```
The output of C<unidecode(...)> always consists entirely of US-ASCII characters -- i.e., characters 0x0000 - 0x007F.

=item *

All Unicode characters translate to a sequence of (any number of) characters that are newline ("\n") or in the range 0x0020-0x007E. That is, no Unicode character translates to "\x01", for example. (Altho if you have a "\x01" on input, you'll get a "\x01" in output.)

=item *

Yes, some transliterations produce a "\n" -- but just a few, and only with good reason. Note that the value of newline ("\n") varies from platform to platform -- see L<perlport/perlport>.

=item *

Some Unicode characters may transliterate to nothing (i.e., empty string).

=item *

Very many Unicode characters transliterate to multi-character sequences. E.g., Han character 0x5317 transliterates as the four-character string "Bei ".

=item *

Within these constraints, I may change the transliteration of characters in future versions. For example, if someone convinces me that the Armenian letter at 0x0539, currently transliterated as "T"", would be better transliterated as "D", I may well make that change.

=back

=head1 DESIGN GOALS AND CONSTRAINTS

Text::Unidecode is meant to be a transliterator-of-last resort, to be used once you've decided that you can't just display the Unicode data as is, and once you've decided you don't have a more clever, language-specific transliterator available. It transliterates context-insensitively -- that is, a given character is replaced with the same US-ASCII (7-bit ASCII) character or characters, no matter what the surrounding character are.

The main reason I'm making Text::Unidecode work with only context-insensitive substitution is that it's fast, dumb, and straightforward enough to be feasible. It doesn't tax my
(quite limited) knowledge of world languages. It doesn't require me writing a hundred lines of code to get the Thai syllabification right (and never knowing whether I've gotten it wrong, because I don't know Thai), or spending a year trying to get Text::Unidecode to use the ChaSen algorithm for Japanese, or trying to write heuristics for telling the difference between Japanese, Chinese, or Korean, so it knows how to transliterate any given Uni-Han glyph. And moreover, context-insensitive substitution is still mostly useful, but still clearly couldn't be mistaken for authoritative.

Text::Unidecode is an example of the 80/20 rule in action -- you get 80% of the usefulness using just 20% of a "real" solution.

A "real" approach to transliteration for any given language can involve such increasingly tricky contextual factors as these

-over

=item The previous / preceding character(s)

What a given symbol "X" means, could depend on whether it's followed by a consonant, or by vowel, or by some diacritic character.

=item Syllables

A character "X" at end of a syllable could mean something different from when it's at the start -- which is especially problematic when the language involved doesn't explicitly mark where one syllable stops and the next starts.

=item Parts of speech

What "X" sounds like at the end of a word, depends on whether that word is a noun, or a verb, or what.

=item Meaning

By semantic context, you can tell that this ideogram "X" means "shoe" (pronounced one way) and not "time" (pronounced another), and that's how you know to transliterate it one way instead of the other.

=item Origin of the word

"X" means one thing in loanwords and/or placenames (and derivatives thereof), and another in native words.
"X" normally makes the /X/ sound, except for this list of seventy exceptions (and words based on them, sometimes indirectly). Or: you never can tell which of the three ways to pronounce "X" this word actually uses; you just have to know which it is, so keep a dictionary on hand!

Language

The character "X" is actually used in several different languages, and you have to figure out which you're looking at before you can determine how to transliterate it.

Out of a desire to avoid being mired in any of these kinds of contextual factors, I chose to exclude all of them and just stick with context-insensitive replacement.

TODO

Things that need tending to are detailed in the TODO.txt file, included in this distribution. Normal installs probably don't leave the TODO.txt lying around, but if nothing else, you can see it at http://search.cpan.org/search?dist=Text::Unidecode

MOTTO

The Text::Unidecode motto is:

It's better than nothing!

...in both meanings: 1) seeing the output of C<unidecode(...)>, i.e., there's nothing that Text::Unidecode's algorithm is better than.

CAVEATS

If you get really implausible nonsense out of C<unidecode(...)>, make sure that the input data really is a utf8 string. See L<perlunicode/perlunicode>.

THANKS

Thanks to Harald Tveit Alvestrand,
Abhijit Menon-Sen, and Mark-Jason Dominus.

=head1 SEE ALSO

Unicode Consortium: http://www.unicode.org/

ISBN: 0804717567

Randall K. Barry (editor).  1997.  I<ALA-LC Romanization Tables: 
Transliteration Schemes for Non-Roman Scripts.>  
ISBN: 0844409405

[ALA is the American Library Association; LC is the Library of 
Congress.]

Rupert Snell.  2000.  I<Beginner's Hindi Script (Teach Yourself 

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Much of Text::Unidecode's internal data is based on data from The
Unicode Consortium, with which I am unaffiliated.

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

############################################################
SCOOBIE SNACK ################################################

Lest there be any REMAINING doubt that the Unicode Consortium has
a sense of humor, the CDROM that comes with /The Unicode Standard,
Version 3.0/ book, has an audio track of the Unicode anthem [!].
The lyrics are:

Unicode, Oh Unicode!
------------------
Oh, beautiful for Uni-Han,
for spacious User Zone!
For rampant scripts of India
and polar Nunavut!

Chorus:
Unicode, Oh Unicode!
May all your code points shine forever
and your beacon light the world!

Oh, marvelous for sixteen bits,
for precious surrogates!
For Bi-Di algorithm dear
and stalwart I-P-A!

Oh, glorious for Hangul fair,
for symbols mathematical!
For myriad exotic scripts
and punctuation we adore!

# End.

Found in path(s):
* /opt/cola/permits/1137275406_1614044597.36/0/perl-Text-Unidecode-0.04-20.el7-1.src.rpm-cosi-expand-archive-2vriqjMe/Text-Unidecode-0.04.tar.gz-cosi-expand-archive-0JwYO0Mk/Text-Unidecode-0.04/lib/Text/Unidecode.pm

1.3926 d-bus 1.6.12-17.el7

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implementation of MCS (Mellor-Crummey/Scott) locks.

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/* * source code in a product, acknowledgment would be highly appreciated. * */
/* * * */
/* * *************************************************************** * */
/* * * */
/* * Parts of this software have been adapted from the libpng package. * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package.  * */
/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* * * */
/* * * */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level.                              * */
/* * (future modifications may include some more support for creation * */
/* * and or editing)                                     * */
/* * * */
/* * *************************************************************** * */

uic3: property `paletteBackgroundColor' for widget `title' of type `QLabel' is not supported. Line: 64 Column: 47
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</property>
</vbox>
</widget>
</widget>
</UI>
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==============

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   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?
   You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?
   Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

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   Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

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   This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86
core server) has other mechanisms for font substitution.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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March 26, 2015

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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That's all there is to it!

# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

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  analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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  analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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  analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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===========================================================================

Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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1.3943 libidn 1.18 2.el6

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@enumerate
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Version 3, 29 June 2007

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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1.3945 cryptsetup 1.6.6-5

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1.3947 trousers 0.3.14 2.el7

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1.3948 super-csv 2.4.0

1.3949 python-oauth 1.0.1-3build2
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* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/Utf8HttpWriter.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/session/HashedSession.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/handler/ScopedHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/AsyncNCSARequestLog.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/HostHeaderCustomizer.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/session/Request.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/HttpConnectionFactory.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/HomeBaseWarning.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/session/package-info.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/HttpWriter.java
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* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/LocalConnector.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/SessionIdManager.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/session/AbstractSession.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/session/package-info.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1.jar/org/eclipse/jetty/server/session/SessionManager.java
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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */

Found in path(s):
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/HttpConfiguration.java

1.3974 lang-painless 6.7.0

1.3975 libestr 0.1.9 0ubuntu2

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1.3977 javatuples 1.2
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1.3981 protobuf-java-util 3.1.0

1.3982 gssproxy 0.4.1 13.el7
1.3982.1 Available under license :
GSS-PROXY

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1.3983 nginx 1.9.5
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glennrp at users.sourceforge.net
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jar/com/beust/jcommander/IParameterValidator.java
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jar/com/beust/jcommander/converters/IntegerConverter.java
* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-
jar/com/beust/jcommander/ParametersDelegate.java
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   *interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   *and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   *loss of link, and correctly re-enable PHY when link is
   *re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer
  combined, allow nicstar_free_rx_skb to be called to
  recycle large data buffers
  2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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* M. Welsh, 6 July 1996
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for merging the nxt2002 and nxt2004 modules into a
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Version 3, 29 June 2007

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1.4007 grep 2.20 2.el7

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BIRT Runtime
What is it?
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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.
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You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console
----------------------------------

In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
3. generate the report by run
   
   genReport xxx.rptdesign

   xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by .\xxx.rptdesign

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text" />
    <xsl:value-of select="isc.copyright.leader" />
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))" />
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')" />
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest" />
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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    </xsl:text>
  </xsl:variable>
</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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   - The make-ssh-known-hosts script is no longer included
   - TSS has been removed
   - MD5 is now external, in the OpenSSL library
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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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==================

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* He had maintained the VMS support on 2003-2004.

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* wrote rdoc for Fiber

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* He is the maintainer of:
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  * net/http, net/https
  * net/pop
  * net/smtp
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* He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole gc.c tmpdir.rb

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* Added IO#pread and IO#pwrite.

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* ruby_strtod is based on his paper.

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* patches for rdoc

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* a patch for lib/benchmark.rb

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* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

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* #4415 parallel unit/test

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* He wrote and is the maintainer of
* date
* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

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* ruby_strtod

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* documentation

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* committer
* He wrote benchmark.rb
* He is the maintainer of:
  * benchmark.rb
  * open3

GOTOU, Yuuzou (gotoyuzo)
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* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

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* patch for ruby-mode.el's documentation.

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Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
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* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c
Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

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  * rdoc
  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

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* built a continuous integration environment on OpenSolaris.

== I

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* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

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* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
* tracer.rb

== J

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* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

== K

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* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

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* patches for common.mk, AIX AF_INET6 support

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* He wrote getoptlong.rb

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* a patch for shellwords.rb

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* a patch for configure.in

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* patch for make help.

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* a patch for optparse.rb

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* He wrote Oniguruma.

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* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

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* a patch for fileutils.rb

== M

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  * net/ftp
  * net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation
Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

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* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

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* a.k.a. the “patch monster”
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

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* patches for util.c

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* a.k.a. authorNari
* working at GC

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  * logger.rb
  * soap/* (1.8)
  * wsd1/* (1.8)
  * xsd/* (1.8)

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* Did much upon m17n.
* He is the maintainer of:
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  * nkf

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  * gserver (1.8)

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* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

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* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
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* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

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* He wrote and is the maintainer of REXML.

== S

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* M17N

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* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

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* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

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* He wrote YARV.
Hugh Sasse
* a patch for net/http
* documentation

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* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

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* patch for net/http and rdoc.

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  * erb
  * rinda

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Kent Sibilev

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* committer

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* He wrote gserver.rb

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* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

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* WebDAV support for net/http

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sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

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* committer

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* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

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* documentation

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* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

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* NeXT OpenStep, Rhapsody support

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* He wrote and is the maintainer of rss/*

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* documentation

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* BigDecimal

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* He was the maintainer of test/unit, runit, rubyunit.

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* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hiroyumi (eban)
* committer
* He is the maintainer of
* ftools (1.8)
* tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c
Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop
  # frozen_string_literal: true
  require 'rubygems/text'

class Gem::Licenses
  extend Gem::Text

  NONSTANDARD = 'Nonstandard'.freeze

  # Software Package Data Exchange (SPDX) standard open-source software
  # license identifiers
  LICENSE_IDENTIFIERS = %w(
    0BSD
    AAL
    ADSL
    AFL-1.1
    AFL-1.2
    AFL-2.0
    AFL-2.1
    AFL-3.0
    AGPL-1.0
    AGPL-3.0
    AGPL-3.0-only
    AGPL-3.0-or-later
    AMDPLPA
    AML
    AMPAS
    ANTLR-PD
    APAFML
    APL-1.0
    APSL-1.0
    APSL-1.1
    APSL-1.2
    APSL-2.0
    Abstyles
    Adobe-2006
    Adobe-Glyph

Open Source Used In Tetration 3.5.1  44373
Afmparse
Aladdin
Apache-1.0
Apache-1.1
Apache-2.0
Artistic-1.0
Artistic-1.0-Perl
Artistic-1.0-cl8
Artistic-2.0
BSD-1-Clause
BSD-2-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-2-Clause-Patent
BSD-3-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-3-Clause-No-Nuclear-License
BSD-3-Clause-No-Nuclear-License-2014
BSD-3-Clause-No-Nuclear-Warranty
BSD-4-Clause
BSD-4-Clause-UC
BSD-Protection
BSD-Source-Code
BSL-1.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
EPL-2.0
EUDatagrid
EUPL-1.0
EUPL-1.1
EUPL-1.2
Entessa
EriPL-1.1
Eurosym
FSFAP
FSFUL
FSFULLR
FTL
Fair
Frameworx-1.0
FreeImage
GFDL-1.1
GFDL-1.1-only
GFDL-1.1-or-later
GFDL-1.2
GFDL-1.2-only
GFDL-1.2-or-later
GFDL-1.3
GFDL-1.3-only
GFDL-1.3-or-later
GL2PS
GPL-1.0
GPL-1.0+
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0
GPL-2.0+
GPL-2.0-only
GPL-2.0-or-later
GPL-2.0-with-GCC-exception
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-3.0
GPL-3.0+
GPL-3.0-only
GPL-3.0-or-later
GPL-3.0-with-GCC-exception
GPL-3.0-with-autoconf-exception
Giftware
Glide
Glulxe
HPND
HaskellReport
IBM-pibs
ICU
IJG
IPA
IPL-1.0
ISC
ImageMagick
Imlib2
Info-ZIP
Intel
Intel-ACPI
Interbase-1.0
JSON
JasPer-2.0
LAL-1.2
LAL-1.3
LGPL-2.0
LGPL-2.0+
LGPL-2.0-only
LGPL-2.0-or-later
LGPL-2.1
LGPL-2.1+
LGPL-2.1-only
LGPL-2.1-or-later
LGPL-3.0
LGPL-3.0+
LGPL-3.0-only
LGPL-3.0-or-later
LGPL-LR
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
LPPL-1.2
LPPL-1.3a
LPPL-1.3c
Latex2e
Leptonica
LiLiQ-P-1.1
LiLiQ-R-1.1
LiLiQ-Rplus-1.1
Libpng
MIT
MIT-CMU
MIT-advertising
MIT-enna
MIT-feh
MITNFA
MPL-1.0
MPL-1.1
MPL-2.0
MPL-2.0-no-copyleft-exception
MS-PL
MS-RL
MTLL
MakeIndex
MirOS
Motosoto
Multics
Map
NASA-1.3
NBPL-1.0
NCSA
NGPL
NLOD-1.0
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSLO-3.0
NRL
NTP
Naumen
Net-SNMP
NetCDF
Newsletr
Nokia
Noweb
Nunit
OCCT-PL
OCLC-2.0
ODbl-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0
OLDAP-2.0.1
OLDAP-2.1
OLDAP-2.2
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SMPPL
SNIA
SPL-1.0
SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
StandardML-NJ
SugarCRM-1.1.3
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
UPL-1.0
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
VOSTROM
VSL-1.0
Vim
W3C
W3C-19980720
W3C-20150513
WTFPL
Watcom-1.0
Wsuipa
X11
XFree86-1.1
XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
curl
diffmark
dvipdfm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
wxWindows
xinstd
xpp
zlib-acknowledgement
).freeze

# exception identifiers
EXCEPTION_IDENTIFIERS = %w(
  389-exception
  Autoconf-exception-2.0
  Autoconf-exception-3.0
  Bison-exception-2.2
  Bootloader-exception
  CLISP-exception-2.0
  Classpath-exception-2.0
  DigiRule-FOSS-exception
  FLTK-exception
  Fawkes-Runtime-exception
  Font-exception-2.0
  GCC-exception-2.0
  GCC-exception-3.1
  LZMA-exception
  Libtool-exception
  Linux-syscall-note
  Nokia-Qt-exception-1.1
  OCCT-exception-1.0
  Qt-exception-1.0
  WxWindows-exception-3.1
  eCos-exception-2.0
  freertos-exception-2.0
  gnu-javamail-exception
  i2p-gpl-java-exception
  mif-exception
  openvpn-openssl-exception
  u-boot-exception-2.0
).freeze

REGEXP = %r{
  \A
  \(\n    #{Regexp.union(LICENSE_IDENTIFIERS)}
    \+?\n    (\s WITH \s #{Regexp.union(EXCEPTION_IDENTIFIERS)})?\n  \| #{NONSTANDARD}
def self.match?(license)
  !REGEXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = LICENSE_IDENTIFIERS.group_by do [identifier]
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end

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RSpec.describe "bundle licenses" do
  before :each do
    install_gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
    G
  end

  it "prints license information for all gems in the bundle" do
    bundle "licenses"

    loaded_bundler_spec = Bundler.load.specs["bundler"]
    expected = if !loaded_bundler_spec.empty?
      loaded_bundler_spec[0].license
    else
      "Unknown"
    end

    expect(out).to include("bundler: #{expected}")
    expect(out).to include("with_license: MIT")
  end

  it "performs an automatic bundle install" do
    gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
      gem "foo"
    G

    bundle "config auto_install 1"
    bundle :licenses
    expect(out).to include("Installing foo 1.0")
  end
end

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ccan/build_assert/build_assert.h::
ccan/check_type/check_type.h::
ccan/container_of/container_of.h::
ccan/str/str.h::

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ccan/list/list.h::

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include/ruby/onigmo.h::
include/ruby/oniguruma.h::
regcomp.c::
regenc.c::
regenc.h::
regerror.c::
regexec.c::
regint.h::
regparse.c::
regparse.h::
enc/ascii.c::
enc/big5.c::
enc/cp949.c::
enc/emacs_mule.c::
enc/encdb.c::
enc/euc_ip.c::
enc/euc_kr.c::
enc/euc_tw.c::
enc/gb18030.c::
enc/gb2312.c::
enc/gbk.c::
enc/iso_8859_1.c::
enc/iso_8859_10.c::
enc/iso_8859_11.c::
enc/iso_8859_13.c::
enc/iso_8859_14.c::
enc/iso_8859_15.c::
enc/iso_8859_16.c::
enc/iso_8859_2.c::
enc/iso_8859_3.c::
enc/iso_8859_4.c::
enc/iso_8859_5.c::
enc/iso_8859_6.c::
enc/iso_8859_7.c::
enc/iso_8859_8.c::
enc/iso_8859_9.c::
enc/koi8_r.c::
enc/koi8_u.c::
enc/shift_jis.c::
enc/unicode.c::
enc/us_ascii.c::
enc/utf_16be.c::
enc/utf_16le.c::
enc/utf_32be.c::
enc/utf_32le.c::
enc/windows_1251.c::

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* https://github.com/k-takata/Onigmo/
* https://github.com/kkos/oniguruma
* https://svnweb.freebsd.org/ports/head/devel/oniguruma/

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enc/trans/GB/GB12345%UCS.src::
enc/trans/GB/UCS%GB12345.src::
enc/trans/GB/GB2312%UCS.src::
enc/trans/GB/UCS%GB2312.src::

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enc/trans/JIS/JISX0208@1990%UCS.src::
enc/trans/JIS/JISX0212%UCS.src::
enc/trans/JIS/UCS%JISX0201-KANA.src::
enc/trans/JIS/UCS%JISX0208@1990.src::
enc/trans/JIS/UCS%JISX0212.src::

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enc/trans/JIS/JISX0213-2%UCS%SIP.src::

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enc/trans/JIS/UCS@BMP%JISX0213-2.src::
enc/trans/JIS/UCS@SIP%JISX0213-1.src::
enc/trans/JIS/UCS@SIP%JISX0213-2.src::

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tool/config.sub::

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>>> A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb $ 

vsnprintf.c::

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missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strerror.c::
missing/tgamma.c::
ext/date/date_strftime.c::
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L. Peter Deutsch
ghost@aladdin.com

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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emacs po-mode was written by Francois Pinard <pinard@iro.umontreal.ca>

This package was first created by Erick Branderhorst <branderh@debian.org>
and is currently maintained by Santiago Vila <sanvila@debian.org>

This release has been built using the sources from:

http://ftp.gnu.org/pub/gnu/gettext/gettext-0.18.3.1.tar.gz

The changes were fairly minimal, and consisted solely of adding
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@page
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1.4053 javax-json 1.0.4

1.4054 saaj 1.5.2

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1.4062 abego-treelayout-core 1.0.3

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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.4075 libpaper 1.1.24-9.el7

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1.4076 perl-compress-raw-zlib 2.061 4.el7  
1.4077 bash 4.2.46 20.el7_2  
1.4077.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins) id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
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Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
  } Subject: ksh scripts
  } From odin.ins.cwru.edu!chet Tue May  9 10:39:51 1995
  } Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
  }  9 May 95 10:39 PDT
  } Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
  } id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
  } Date: Tue, 9 May 1995 13:36:54 -0400
  } From: Chet Ramey <chet@odin.ins.cwru.edu>
  } To: john@armory.com
  } Subject: ksh scripts
  } Cc: chet@odin.ins.cwru.edu
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

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@c End:
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Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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to work with bash-2.0. Does ORA have any problem with me distributing
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1.4078 bridgeutils 1.5 9.el7

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.4090 pinentry 0.8.1 17.el7

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* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/lib/Date/Format.pm
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/lib/Date/Parse.pm

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);

@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);

print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);

print $lang->ctime(time);
print $lang->asctime(@lt);

print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

=head1 LICENCE

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* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate2.30/lib/Date/Language/Hungarian.pm
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=encoding utf8
=head1 NAME
Date::Language::Bulgarian - localization for Date::Format
=head1 DESCRIPTION
This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addresed in the future.
=head1 SYNOPSIS
use strict;
use warnings;
use Date::Language;
local $\=$/;
my $template ='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,':utf8');
foreach my $l(keys %languages){
my $lang = Date::Language->new($l);
my $zone = $languages{$l};
print $/. "$l $zone";
print $lang->time2str($template, $time);
print $lang->time2str($template, $time, $zone);
print $lang->strftime($template, \@lt);
}
=head1 AUTHOR
Krasimir Berov (berov@cpan.org)
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Open Source Used In Tetration 3.5.1 44883


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=cut

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This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

    perl Makefile.PL
    make
    make test
    make install

Please report any bugs/suggestions to <gbarr@pobox.com>

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Graham <gbarr@pobox.com>

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---
abstract: unknown
author:
- 'Graham Barr <gbarr@pobox.com>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: TimeDate
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  repository: http://github.com/gbarr/perl-TimeDate
version: 2.30

Found in path(s):
  * /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/META.yml

---

1.4105 liblogging 1.0.6-0adiescon1trusty1

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1.4107 rng-tools 6.3.1 5.el7

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
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1.4118 lvm2 1.02.117-12.el6_9.1

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# Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
# In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
# In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
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#
# Release         Derived     Year        Owner       GPL-
# from                                compatible? (1)
#
# 0.9.0 thru 1.2              1991-1995   CWI         yes
# 1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
# 1.6             1.5.2       2000        CNRI        no
# 2.0             1.6         2000        BeOpen.com  no
# 1.6.1           1.6         2001        CNRI        yes (2)
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# 2.0.1           2.0+1.6.1   2001        PSF         yes
# 2.1.1           2.1+2.0.1   2001        PSF         yes
# 2.2             2.1.1       2001        PSF         yes
# 2.1.2           2.1.1       2002        PSF         yes
# 2.1.3           2.1.2       2002        PSF         yes
# 2.2.1           2.2         2002        PSF         yes
# 2.2.2           2.2.1       2002        PSF         yes
# 2.2.3           2.2.2       2003        PSF         yes
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# 2.5.1           2.5         2007        PSF         yes
# 2.5.2           2.5.1       2008        PSF         yes
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This library contains efficient implementation of LZF compression format,
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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
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Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
fixes; these can be found from file "VERSION.txt" in SCM.

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1.4126 zero-allocation-hashing 0.8
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src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
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src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

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* The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

  http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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Glenn Randers-Pehrson  
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Found in path(s):
* /opt/cola/permits/1138401266_1614282136.65/0/libhttp-message-perl-6-06-orig-1-tar-gz/HTTP-Message-6.06/META.yml

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=head1 NAME

HTTP::Request::Common - Construct common HTTP::Request objects

=head1 SYNOPSIS

use HTTP::Request::Common;
$ua = LWP::UserAgent->new;
$ua->request(GET 'http://www.sn.no/');
$ua->request(POST 'http://somewhere/foo', [foo => bar, bar => foo]);

=head1 DESCRIPTION

This module provide functions that return newly created C<HTTP::Request> objects. These functions are usually more convenient to use than the standard C<HTTP::Request> constructor for the most common requests. The following functions are provided:

=over 4

=item GET $url

=item GET $url, Header => Value,...

The GET() function returns an C<HTTP::Request> object initialized with the "GET" method and the specified URL. It is roughly equivalent to the following call

HTTP::Request->new(
    GET => $url,
    HTTP::Headers->new(Header => Value,...),
)
but is less cluttered. What is different is that a header named C<Content> will initialize the content part of the request instead of setting a header field. Note that GET requests should normally not have a content, so this hack makes more sense for the PUT() and POST() functions described below.

The get(...) method of C<LWP::UserAgent> exists as a shortcut for $ua->request(GET ...).

=item HEAD $url

=item HEAD $url, Header => Value,...

Like GET() but the method in the request is "HEAD".

The head(...) method of "LWP::UserAgent" exists as a shortcut for $ua->request(HEAD ...).

=item PUT $url

=item PUT $url, Header => Value,...

=item PUT $url, Header => Value,..., Content => $content

Like GET() but the method in the request is "PUT".

The content of the request can be specified using the "Content" pseudo-header. This steals a bit of the header field namespace as there is no way to directly specify a header that is actually called "Content". If you really need this you must update the request returned in a separate statement.

=item DELETE $url

=item DELETE $url, Header => Value,...

Like GET() but the method in the request is "DELETE". This function is not exported by default.

=item POST $url

=item POST $url, Header => Value,...

=item POST $url, $form_ref, Header => Value,...

=item POST $url, Header => Value,..., Content => $form_ref

=item POST $url, Header => Value,..., Content => $content
This works mostly like PUT() with "POST" as the method, but this function also takes a second optional array or hash reference parameter $form_ref. As for PUT() the content can also be specified directly using the "Content" pseudo-header, and you may also provide the $form_ref this way.

The $form_ref argument can be used to pass key/value pairs for the form content. By default we will initialize a request using the C<application/x-www-form-urlencoded> content type. This means that you can emulate an HTML E<lt>form> POSTing like this:

```
POST 'http://www.perl.org/survey.cgi',
    [ name   => 'Gisle Aas',
      email  => 'gisle@aas.no',
      gender => 'M',
      born   => '1964',
      perc   => '3%',
    ];
```

This will create an HTTP::Request object that looks like this:

```
POST http://www.perl.org/survey.cgi
Content-Length: 66
Content-Type: application/x-www-form-urlencoded

name=Gisle%20Aas&email=gisle%40aas.no&gender=M&born=1964&perc=3%25
```

Multivalued form fields can be specified by either repeating the field name or by passing the value as an array reference.

The POST method also supports the C<multipart/form-data> content used for I<Form-based File Upload> as specified in RFC 1867. You trigger this content format by specifying a content type of C<'form-data'> as one of the request headers. If one of the values in the $form_ref is an array reference, then it is treated as a file part specification with the following interpretation:

```
[ $file, $filename, Header => Value... ]
[ undef, $filename, Header => Value,..., Content => $content ]
```

The first value in the array ($file) is the name of a file to open. This file will be read and its content placed in the request. The routine will croak if the file can't be opened. Use an C<undef> as $file value if you want to specify the content directly with a C<Content> header. The $filename is the filename to report in the request. If this value is undefined, then the basename of the $file will be used. You can specify an empty string as $filename if you
want to suppress sending the filename when you provide a $file value.

If a $file is provided by no Content-Type header, then Content-Type and Content-Encoding will be filled in automatically with the values returned by LWP::MediaTypes::guess_media_type()

Sending my ~/.profile to the survey used as example above can be achieved by this:

```
POST 'http://www.perl.org/survey.cgi',
  Content_Type => 'form-data',
  Content      => [ name  => 'Gisle Aas',
                   email => 'gisle@aas.no',
                   gender => 'M',
                   born   => '1964',
                   init   => ["ENV[HOME]/.profile"],
                 ],
```

This will create an HTTP::Request object that almost looks this (the boundary and the content of your ~/.profile is likely to be different):

```
POST http://www.perl.org/survey.cgi
Content-Length: 388
Content-Type: multipart/form-data; boundary="6G+f"

--6G+f
Content-Disposition: form-data; name="name"
Gisle Aas
--6G+f
Content-Disposition: form-data; name="email"
gisle@aas.no
--6G+f
Content-Disposition: form-data; name="gender"
M
--6G+f
Content-Disposition: form-data; name="born"
1964
--6G+f
Content-Disposition: form-data; name="init"; filename="profile"
Content-Type: text/plain
PATH=/local/perl/bin:$PATH
export PATH
```
If you set the $DYNAMIC_FILE_UPLOAD variable (exportable) to some TRUE value, then you get back a request object with a subroutine closure as the content attribute. This subroutine will read the content of any files on demand and return it in suitable chunks. This allow you to upload arbitrary big files without using lots of memory. You can even upload infinite files like F</dev/audio> if you wish; however, if the file is not a plain file, there will be no Content-Length header defined for the request. Not all servers (or server applications) like this. Also, if the file(s) change in size between the time the Content-Length is calculated and the time that the last chunk is delivered, the subroutine will C<Croak>.

The post(...) method of "LWP::UserAgent" exists as a shortcut for $ua->request(POST ...).

=head1 SEE ALSO

L<HTTP::Request>, L<LWP::UserAgent>

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=cut

Found in path(s):
* /opt/cola/permits/1138401266_1614282136.65/0/libhttp-message-perl-6-06-orig-1-tar-gz/HTTP-Message-6.06/lib/HTTP/Request/Common.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Request - HTTP style request message

=head1 SYNOPSIS

require HTTP::Request;
$request = HTTP::Request->new(GET => 'http://www.example.com/');
and usually used like this:

```perl
$ua = LWP::UserAgent->new;
$response = $ua->request($request);
```

=head1 DESCRIPTION

C<HTTP::Request> is a class encapsulating HTTP style requests, consisting of a request line, some headers, and a content body. Note that the LWP library uses HTTP style requests even for non-HTTP protocols. Instances of this class are usually passed to the request() method of an C<LWP::UserAgent> object.

C<HTTP::Request> is a subclass of C<HTTP::Message> and therefore inherits its methods. The following additional methods are available:

=over 4

=item $r = HTTP::Request->new( $method, $uri )

=item $r = HTTP::Request->new( $method, $uri, $header )

=item $r = HTTP::Request->new( $method, $uri, $header, $content )

Constructs a new C<HTTP::Request> object describing a request on the object $uri using method $method. The $method argument must be a string. The $uri argument can be either a string, or a reference to a C<URI> object. The optional $header argument should be a reference to an C<HTTP::Headers> object or a plain array reference of key/value pairs. The optional $content argument should be a string of bytes.

=item $r = HTTP::Request->parse( $str )

This constructs a new request object by parsing the given string.

=item $r->method

=item $r->method( $val )

This is used to get/set the method attribute. The method should be a short string like "GET", "HEAD", "PUT" or "POST".

=item $r->uri

=item $r->uri( $val )

This is used to get/set the uri attribute. The $val can be a reference to a URI object or a plain string. If a string is given,
then it should be parseable as an absolute URI.

=item $r->header( $field )

=item $r->header( $field => $value )

This is used to get/set header values and it is inherited from 
C<HTTP::Headers> via C<HTTP::Message>. See L<HTTP::Headers> for 
details and other similar methods that can be used to access the 
headers.

=item $r->accept_decodable

This will set the C<Accept-Encoding> header to the list of encodings 
that decoded_content() can decode.

=item $r->content

=item $r->content( $bytes )

This is used to get/set the content and it is inherited from the 
C<HTTP::Message> base class. See L<HTTP::Message> for details and 
other methods that can be used to access the content.

Note that the content should be a string of bytes. Strings in perl 
can contain characters outside the range of a byte. The C<Encode> 
module can be used to turn such strings into a string of bytes.

=item $r->as_string

=item $r->as_string( $eol )

Method returning a textual representation of the request.

=back

=head1 SEE ALSO

L<HTTP::Headers>, L<HTTP::Message>, L<HTTP::Request::Common>, 
L<HTTP::Response>

=head1 COPYRIGHT

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The HTTP-Message distribution contains classes useful for representing the messages passed in HTTP style communication. These are classes representing requests, responses and the headers contained within them.

The following classes are provided:

- HTTP::Message         base class (what's common between requests and responses)
- HTTP::Request       request on a resource (subclass of message)
- HTTP::Response      response from the resource (subclass of message)
- HTTP::Headers     headers embedded in messages

Other related modules:

- HTTP::Config configuration of request/response handling
- HTTP::Headers::Util helper functions for parsing of HTTP header values
- HTTP::Request::Common helper functions for constructing requests
- HTTP::Status       symbolic names for the HTTP response status codes

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=head1 NAME

HTTP::Headers - Class encapsulating HTTP Message headers

=head1 SYNOPSIS

```perl
require HTTP::Headers;
$sh = HTTP::Headers->new;

$sh->header('Content-Type' => 'text/plain');  # set
$ct = $sh->header('Content-Type');            # get
$sh->remove_header('Content-Type');           # delete
```

=head1 DESCRIPTION
The `HTTP::Headers` class encapsulates HTTP-style message headers. The headers consist of attribute-value pairs also called fields, which may be repeated, and which are printed in a particular order. The field names are case insensitive.

Instances of this class are usually created as member variables of the `HTTP::Request` and `HTTP::Response` classes, internal to the library.

The following methods are available:

=over 4
=item $h = HTTP::Headers->new

Constructs a new `HTTP::Headers` object. You might pass some initial attribute-value pairs as parameters to the constructor. E.g.:

```
$h = HTTP::Headers->new(
    Date => 'Thu, 03 Feb 1994 00:00:00 GMT',
    Content_Type => 'text/html; version=3.2',
    Content_Base => 'http://www.perl.org/');
```

The constructor arguments are passed to the `header` method which is described below.

=item $h->clone

Returns a copy of this `HTTP::Headers` object.

=item $h->header( $field )
=item $h->header( $field => $value )
=item $h->header( $f1 => $v1, $f2 => $v2, ... )

Get or set the value of one or more header fields. The header field name ($field) is not case sensitive. To make the life easier for perl users who wants to avoid quoting before the `=>` operator, you can use `_` as a replacement for `-' in header names.

The `header()` method accepts multiple ($field => $value) pairs, which means that you can update several fields with a single invocation.

The $value argument may be a plain string or a reference to an array of strings for a multi-valued field. If the $value is provided as `undef` then the field is removed. If the $value is not given, then that header field will remain unchanged.
The old value (or values) of the last of the header fields is returned. If no such field exists \texttt{C<undef>} will be returned.

A multi-valued field will be returned as separate values in list context and will be concatenated with ", " as separator in scalar context. The HTTP spec (RFC 2616) promise that joining multiple values in this way will not change the semantic of a header field, but in practice there are cases like old-style Netscape cookies (see \texttt{L<HTTP::Cookies>>}) where ", " is used as part of the syntax of a single field value.

Examples:

```perl
$header->header(MIME_Version => '1.0',
    User_Agent   => 'My-Web-Client/0.01');
$header->header(Accept => "text/html, text/plain, image/*");
$header->header(Accept => [qw(text/html text/plain image/*)]);
@accepts = $header->header('Accept');  # get multiple values
@accepts = $header->header('Accept');  # get values as a single string
```

```perl
=method $h->push_header( $field => $value )
=method $h->push_header( $field1 => $value1, $field2 => $value2, ... )
```

Add a new field value for the specified header field. Previous values for the same field are retained.

As for the \texttt{header()} method, the field name ($\texttt{field}) is not case sensitive and \texttt{'_'} can be used as a replacement for \texttt{'}.

The $\texttt{value}$ argument may be a scalar or a reference to a list of scalars.

```perl
$header->push_header(Accept => 'image/jpeg');
$header->push_header(Accept => [map "image/$_.", qw(gif png tiff)]);
```

```perl
=method $h->init_header( $field => $value )
```

Set the specified header to the given value, but only if no previous value for that field is set.

The header field name ($\texttt{field}) is not case sensitive and \texttt{'_'} can be used as a replacement for \texttt{'}.

The $\texttt{value}$ argument may be a scalar or a reference to a list of scalars.
=item $h->remove_header( $field, ... )

This function removes the header fields with the specified names.

The header field names ($field) are not case sensitive and '_'
can be used as a replacement for '-'.

The return value is the values of the fields removed. In scalar
context the number of fields removed is returned.

Note that if you pass in multiple field names then it is generally not
possible to tell which of the returned values belonged to which field.

=item $h->remove_content_headers

This will remove all the header fields used to describe the content of
a message. All header field names prefixed with C<Content-> fall
into this category, as well as C<Allow>, C<Expires> and
C>Last-Modified>. RFC 2616 denotes these fields as I<Entity Header
Fields>.

The return value is a new C<HTTP::Headers> object that contains the
removed headers only.

=item $h->clear

This will remove all header fields.

=item $h->header_field_names

Returns the list of distinct names for the fields present in the
header. The field names have case as suggested by HTTP spec, and the
names are returned in the recommended "Good Practice" order.

In scalar context return the number of distinct field names.

=item $h->scan( &process_header_field )

Apply a subroutine to each header field in turn. The callback routine
is called with two parameters; the name of the field and a single
value (a string). If a header field is multi-valued, then the
routine is called once for each value. The field name passed to the
callback routine has case as suggested by HTTP spec, and the headers
will be visited in the recommended "Good Practice" order.

Any return values of the callback routine are ignored. The loop can
be broken by raising an exception (C<die>), but the caller of scan()
would have to trap the exception itself.
item $h->as_string

=item $h->as_string( $eol )

Return the header fields as a formatted MIME header. Since it internally uses the C<scan> method to build the string, the result will use case as suggested by HTTP spec, and it will follow recommended "Good Practice" of ordering the header fields. Long header values are not folded.

The optional Seol parameter specifies the line ending sequence to use. The default is "\n". Embedded "\n" characters in header field values will be substituted with this line ending sequence.

=back

=head1 CONVENIENCE METHODS

The most frequently used headers can also be accessed through the following convenience methods. Most of these methods can both be used to read and to set the value of a header. The header value is set if you pass an argument to the method. The old header value is always returned. If the given header did not exist then C<undef> is returned.

Methods that deal with dates/times always convert their value to system time (seconds since Jan 1, 1970) and they also expect this kind of value when the header value is set.

=over 4

=item $h->date

This header represents the date and time at which the message was originated. I<E.g.>:

$h->date(time);  # set current date

=item $h->expires

This header gives the date and time after which the entity should be considered stale.

=item $h->if_modified_since

=item $h->if_unmodified_since

These header fields are used to make a request conditional. If the requested
resource has (or has not) been modified since the time specified in this field, then the server will return a C<304 Not Modified> response instead of the document itself.

=item $h->last_modified

This header indicates the date and time at which the resource was last modified. I<E.g.>: 

# check if document is more than 1 hour old
if (my $last_mod = $h->last_modified) {
    if ($last_mod < time - 60*60) {
        ...
    }
}

=item $h->content_type

The Content-Type header field indicates the media type of the message content. I<E.g.>: 

$h->content_type('text/html');

The value returned will be converted to lower case, and potential parameters will be chopped off and returned as a separate value if in an array context. If there is no such header field, then the empty string is returned. This makes it safe to do the following:

if ($h->content_type eq 'text/html') {
    # we enter this place even if the real header value happens to
    # be 'TEXT/HTML; version=3.0'
    ...
}

=item $h->content_type_charset

Returns the upper-cased charset specified in the Content-Type header. In list context return the lower-cased bare content type followed by the upper-cased charset. Both values will be C<undef> if not specified in the header.

=item $h->content_is_text

Returns TRUE if the Content-Type header field indicate that the content is textual.

=item $h->content_is_html

Returns TRUE if the Content-Type header field indicate that the
content is some kind of HTML (including XHTML). This method can't be used to set Content-Type.

=item $h->content_is_xhtml

Returns TRUE if the Content-Type header field indicate that the content is XHTML. This method can't be used to set Content-Type.

=item $h->content_is_xml

Returns TRUE if the Content-Type header field indicate that the content is XML. This method can't be used to set Content-Type.

=item $h->content_encoding

The Content-Encoding header field is used as a modifier to the media type. When present, its value indicates what additional encoding mechanism has been applied to the resource.

=item $h->content_length

A decimal number indicating the size in bytes of the message content.

=item $h->content_language

The natural language(s) of the intended audience for the message content. The value is one or more language tags as defined by RFC 1766. Eg. "no" for some kind of Norwegian and "en-US" for English the way it is written in the US.

=item $h->title

The title of the document. In libwww-perl this header will be initialized automatically from the E<lt>TITLE>...E</TITLE> element of HTML documents. I<This header is no longer part of the HTTP standard.>

=item $h->user_agent

This header field is used in request messages and contains information about the user agent originating the request. I<E.g.>

$sh->user_agent('Mozilla/5.0 (compatible; MSIE 7.0; Windows NT 6.0)');

=item $h->server

The server header field contains information about the software being used by the originating server program handling the request.
=item $h->from

This header should contain an Internet e-mail address for the human user who controls the requesting user agent. The address should be machine-usable, as defined by RFC822. E.g.:

$h->from('King Kong <king@kong.com>);

I<This header is no longer part of the HTTP standard.>

=item $h->referer

Used to specify the address (URI) of the document from which the requested resource address was obtained.

The "Free On-line Dictionary of Computing" as this to say about the word I<referer>:

<World-Wide Web> A misspelling of "referrer" which somehow made it into the {HTTP} standard. A given [web page]'s referer (sic) is the [URL] of whatever web page contains the link that the user followed to the current page. Most browsers pass this information as part of a request.

(1998-10-19)

By popular demand C<referrer> exists as an alias for this method so you can avoid this misspelling in your programs and still send the right thing on the wire.

When setting the referrer, this method removes the fragment from the given URI if it is present, as mandated by RFC2616. Note that the removal does I<not> happen automatically if using the header(), push_header() or init_header() methods to set the referrer.

=item $h->wwwAuthenticate

This header must be included as part of a C<401 Unauthorized> response. The field value consist of a challenge that indicates the authentication scheme and parameters applicable to the requested URI.

=item $h->proxyAuthenticate

This header must be included in a C<407 Proxy Authentication Required> response.
A user agent that wishes to authenticate itself with a server or a proxy, may do so by including these headers.

This method is used to get or set an authorization header that use the "Basic Authentication Scheme". In array context it will return two values; the user name and the password. In scalar context it will return "uname:password" as a single string value.

When used to set the header value, it expects two arguments. E.g.:

$h->authorization_basic($uname, $password);

The method will croak if the $uname contains a colon ':'.

Same as authorization_basic() but will set the "Proxy-Authorization" header instead.

The header field name spelling is normally canonicalized including the '_' to '-' translation. There are some applications where this is not appropriate. Prefixing field names with ':' allow you to force a specific spelling. For example if you really want a header field name to show up as C<foo_bar> instead of "Foo-Bar", you might set it like this:

$h->header(":foo_bar" => 1);

These field names are returned with the ':' intact for $h->header_field_names and the $h->scan callback, but the colons do not show in $h->as_string.

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=head1 NAME

HTTP::Config - Configuration for request and response objects

=head1 SYNOPSIS

use HTTP::Config;
my $c = HTTP::Config->new;
$c->add(m_domain => ".example.com", m_scheme => "http", verbose => 1);

use HTTP::Request;
my $request = HTTP::Request->new(GET => "http://www.example.com");

if (my @m = $c->matching($request)) {
    print "Yadayada\n" if $m[0]->{verbose};
}

=head1 DESCRIPTION

An C<HTTP::Config> object is a list of entries that can be matched against request or request/response pairs. Its purpose is to hold configuration data that can be looked up given a request or response object.

Each configuration entry is a hash. Some keys specify matching to occur against attributes of request/response objects. Other keys can be used to hold user data.

The following methods are provided:

=over 4

=item $conf = HTTP::Config->new

Constructs a new empty C<HTTP::Config> object and returns it.

=item $conf->entries

Returns the list of entries in the configuration object.
In scalar context returns the number of entries.

=item $conf->empty
Return true if there are no entries in the configuration object.
This is just a shorthand for `C<< not $conf->entries >>`.

=item $conf->add( %matchspec, %other )

=item $conf->add( \%entry )

Adds a new entry to the configuration.
You can either pass separate key/value pairs or a hash reference.

=item $conf->remove( %spec )

Removes (and returns) the entries that have matches for all the key/value pairs in %spec.
If %spec is empty this will match all entries; so it will empty the configuration object.

=item $conf->matching( $uri, $request, $response )

=item $conf->matching( $uri )

=item $conf->matching( $request )

=item $conf->matching( $response )

Returns the entries that match the given $uri, $request and $response triplet.

If called with a single $request object then the $uri is obtained by calling its 'uri_canonical' method.
If called with a single $response object, then the request object is obtained by calling its 'request' method;
and then the $uri is obtained as if a single $request was provided.

The entries are returned with the most specific matches first.
In scalar context returns the most specific match or C<undef> in none match.

=item $conf->add_item( $item, %matchspec )

=item $conf->remove_items( %spec )

=item $conf->matching_items( $uri, $request, $response )

Wrappers that hides the entries themselves.

=back

=head2 Matching

The following keys on a configuration entry specify matching. For all of these you can provide an array of values instead of a single value.
The entry matches if at least one of the values in the array matches.
Entries that require match against a response object attribute will never match unless a response object was provided.

=item m_scheme => $scheme

Matches if the URI uses the specified scheme; e.g. "http".

=item m_secure => $bool

If $bool is TRUE; matches if the URI uses a secure scheme. If $bool is FALSE; matches if the URI does not use a secure scheme. An example of a secure scheme is "https".

=item m_host_port => "$hostname:$port"

Matches if the URI's host_port method return the specified value.

=item m_host => $hostname

Matches if the URI's host method returns the specified value.

=item m_port => $port

Matches if the URI's port method returns the specified value.

=item m_domain => ".$domain"

Matches if the URI's host method return a value that within the given domain. The hostname "www.example.com" will for instance match the domain ".com".

=item m_path => $path

Matches if the URI's path method returns the specified value.

=item m_path_prefix => $path

Matches if the URI's path is the specified path or has the specified path as prefix.

=item m_path_match => $Regexp

Matches if the regular expression matches the URI's path. Eg. qr/.html$/.

=item m_method => $method
Matches if the request method matches the specified value. Eg. "GET" or "POST".

=item m_code => $digit

=item m_code => $status_code

Matches if the response status code matches. If a single digit is specified; matches for all response status codes beginning with that digit.

=item m_proxy => $url

Matches if the request is to be sent to the given Proxy server.

=item m_media_type => "/*/*"

=item m_media_type => "text/*"

=item m_media_type => "html"

=item m_media_type => "xhtml"

=item m_media_type => "text/html"

Matches if the response media type matches.

With a value of "html" matches if $response->content_is_html returns TRUE. With a value of "xhtml" matches if $response->content_is_xhtml returns TRUE.

=item m_uri__I<$method> => undef

Matches if the URI object provides the method.

=item m_uri__I<$method> => $string

Matches if the URI's $method method returns the given value.

=item m_header__I<$field> => $string

Matches if either the request or the response have a header $field with the given value.

=item m_response_attr__I<$key> => undef

=item m_response_attr__I<$key> => $string

Matches if the response object has that key, or the entry has the given value.

=back
NAME

HTTP::Response - HTTP style response message

SYNOPSIS

Response objects are returned by the request() method of the C<LWP::UserAgent>:

# ...  
$response = $ua->request($request)
if ($response->is_success) {  
   print $response->decoded_content;
}  
else {  
   print STDERR $response->status_line, "\n";
}

DESCRIPTION

The C<HTTP::Response> class encapsulates HTTP style responses. A response consists of a response line, some headers, and a content body. Note that the LWP library uses HTTP style responses even for non-HTTP protocol schemes. Instances of this class are usually created and returned by the request() method of an C<LWP::UserAgent> object.

C<HTTP::Response> is a subclass of C<HTTP::Message> and therefore inherits its methods. The following additional methods are available:
Constructs a new C<HTTP::Response> object describing a response with response code $code and optional message $msg. The optional $header argument should be a reference to an C<HTTP::Headers> object or a plain array reference of key/value pairs. The optional $content argument should be a string of bytes. The meanings of these arguments are described below.

This constructs a new response object by parsing the given string.

This is used to get/set the code attribute. The code is a 3 digit number that encode the overall outcome of an HTTP response. The C<HTTP::Status> module provide constants that provide mnemonic names for the code attribute.

This is used to get/set the message attribute. The message is a short human readable single line string that explains the response code.

This is used to get/set header values and it is inherited from C<HTTP::Headers> via C<HTTP::Message>. See L<HTTP::Headers> for details and other similar methods that can be used to access the headers.
This is used to get/set the raw content and it is inherited from the
C<HTTP::Message> base class. See L<HTTP::Message> for details and
other methods that can be used to access the content.

This will return the content after any C<Content-Encoding> and
charsets have been decoded. See L<HTTP::Message> for details.

This is used to get/set the request attribute. The request attribute
is a reference to the the request that caused this response. It does
not have to be the same request passed to the $ua->request() method,
because there might have been redirects and authorization retries in
between.

This is used to get/set the previous attribute. The previous
attribute is used to link together chains of responses. You get
chains of responses if the first response is redirect or unauthorized.
The value is C<undef> if this is the first response in a chain.

Note that the method $r->redirects is provided as a more convenient
way to access the response chain.

Returns the string "E<lt>code> E<lt>message>". If the message attribute
is not set then the official name of E<lt>code> (see L<HTTP::Status>)
is substituted.

Returns the base URI for this response. The return value will be a
reference to a URI object.

The base URI is obtained from one the following sources (in priority
order):
Embedded in the document content, for instance <BASE HREF="..."> in HTML documents.

A "Content-Base:" or a "Content-Location:" header in the response.

For backwards compatibility with older HTTP implementations we will also look for the "Base:" header.

The URI used to request this response. This might not be the original URI that was passed to $ua->request() method, because we might have received some redirect responses first.

If none of these sources provide an absolute URI, undef is returned.

When the LWP protocol modules produce the HTTP::Response object, then any base URI embedded in the document (step 1) will already have initialized the "Content-Base:" header. This means that this method only performs the last 2 steps (the content is not always available either).

Returns a filename for this response. Note that doing sanity checks on the returned filename (eg. removing characters that cannot be used on the target filesystem where the filename would be used, and laundering it for security purposes) are the caller's responsibility; the only related thing done by this method is that it makes a simple attempt to return a plain filename with no preceding path segments.

The filename is obtained from one the following sources (in priority order):

A "Content-Disposition:" header in the response. Proper decoding of RFC 2047 encoded filenames requires the C<MIME::QuotedPrint> (for "Q" encoding), C<MIME::Base64> (for "B" encoding), and C<Encode> modules.
A "Content-Location:" header in the response.

The URI used to request this response. This might not be the original URI that was passed to $ua->request() method, because we might have received some redirect responses first.

If a filename cannot be derived from any of these sources, undef is returned.

Returns a textual representation of the response.

These methods indicate if the response was informational, successful, a redirection, or an error. See L<HTTP::Status> for the meaning of these.

Returns a string containing a complete HTML document indicating what error occurred. This method should only be called when $r->is_error is TRUE.

Returns the list of redirect responses that lead up to this response by following the $r->previous chain. The list order is oldest first.

In scalar context return the number of redirect responses leading up to this one.
Calculates the "current age" of the response as specified by RFC 2616 section 13.2.3. The age of a response is the time since it was sent by the origin server. The returned value is a number representing the age in seconds.

=item $r->freshness_lifetime( %opt )

Calculates the "freshness lifetime" of the response as specified by RFC 2616 section 13.2.4. The "freshness lifetime" is the length of time between the generation of a response and its expiration time. The returned value is the number of seconds until expiry.

If the response does not contain an "Expires" or a "Cache-Control" header, then this function will apply some simple heuristic based on the "Last-Modified" header to determine a suitable lifetime. The following options might be passed to control the heuristics:

=over

=item heuristic_expiry => $bool

If passed as a FALSE value, don't apply heuristics and just return C<undef> when "Expires" or "Cache-Control" is lacking.

=item h_lastmod_fraction => $num

This number represent the fraction of the difference since the "Last-Modified" timestamp to make the expiry time. The default is C<0.10>, the suggested typical setting of 10% in RFC 2616.

=item h_min => $sec

This is the lower limit of the heuristic expiry age to use. The default is C<60> (1 minute).

=item h_max => $sec

This is the upper limit of the heuristic expiry age to use. The default is C<86400> (24 hours).

=item h_default => $sec

This is the expiry age to use when nothing else applies. The default is C<3600> (1 hour) or "h_min" if greater.

=back
=item $r->is_fresh( %opt )

Returns TRUE if the response is fresh, based on the values of
freshness_lifetime() and current_age(). If the response is no longer
fresh, then it has to be re-fetched or re-validated by the origin
server.

Options might be passed to control expiry heuristics, see the
description of freshness_lifetime().

=item $r->fresh_until( %opt )

Returns the time (seconds since epoch) when this entity is no longer fresh.

Options might be passed to control expiry heuristics, see the
description of freshness_lifetime().

=back

=head1 SEE ALSO

L<HTTP::Headers>, L<HTTP::Message>, L<HTTP::Status>, L<HTTP::Request>

=head1 COPYRIGHT

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Found in path(s):
  * /opt/cola/permits/1138401266_1614282136.65/0/libhttp-message-perl-6-06-orig-1-tar-gz/HTTP-Message-6.06/lib/HTTP/Response.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Message - HTTP style message (base class)

=head1 SYNOPSIS

use base 'HTTP::Message';

=head1 DESCRIPTION

An C<HTTP::Message> object contains some headers and a content body.
The following methods are available:
This constructs a new message object. Normally you would want construct C<HTTP::Request> or C<HTTP::Response> objects instead.

The optional $header argument should be a reference to an C<HTTP::Headers> object or a plain array reference of key/value pairs. If an C<HTTP::Headers> object is provided then a copy of it will be embedded into the constructed message, i.e. it will not be owned and can be modified afterwards without affecting the message.

The optional $content argument should be a string of bytes.

This constructs a new message object by parsing the given string.

Returns the embedded C<HTTP::Headers> object.

Call the as_string() method for the headers in the message. This will be the same as

but it will make your program a whole character shorter :-)
module can be used to turn such strings into a string of bytes.

=item $mess->add_content( $bytes )

The add_content() methods appends more data bytes to the end of the current content buffer.

=item $mess->add_content_utf8( $string )

The add_content_utf8() method appends the UTF-8 bytes representing the string to the end of the current content buffer.

=item $mess->content_ref

=item $mess->content_ref( \$bytes )

The content_ref() method will return a reference to content buffer string. It can be more efficient to access the content this way if the content is huge, and it can even be used for direct manipulation of the content, for instance:

$[\$res->content_ref] =~ s/bfoo/b/bar/g;

This example would modify the content buffer in-place.

If an argument is passed it will setup the content to reference some external source. The content() and add_content() methods will automatically dereference scalar references passed this way. For other references content() will return the reference itself and add_content() will refuse to do anything.

=item $mess->content_charset

This returns the charset used by the content in the message. The charset is either found as the charset attribute of the C<Content-Type> header or by guessing.

See L<http://www.w3.org/TR/REC-html40/charset.html#spec-char-encoding> for details about how charset is determined.

=item $mess->decoded_content( %options )

Returns the content with any C<Content-Encoding> undone and for textual content the raw content encoded to Perl's Unicode strings. If the C<Content-Encoding> or C<charset> of the message is unknown this method will fail by returning C<undef>.

The following options can be specified.
This override the charset parameter for text content. The value C\<none\> can used to suppress decoding of the charset.

This override the default charset guessed by content_charset() or if that fails "ISO-8859-1".

If decoding fails because the charset specified in the Content-Type header isn't recognized by Perl's Encode module, then try decoding using this charset instead of failing. The C\<alt_charset\> might be specified as C\<none\> to simply return the string without any decoding of charset as alternative.

Abort decoding if malformed characters is found in the content. By default you get the substitution character ("\x{FFFD}\") in place of malformed characters.

If TRUE then raise an exception if not able to decode content. Reason might be that the specified C\<Content-Encoding\> or C\<charset\> is not supported. If this option is FALSE, then decoded_content() will return C\<undef\> on errors, but will still set $@.

If TRUE then a reference to decoded content is returned. This might be more efficient in cases where the decoded content is identical to the raw content as no data copying is required in this case.

This returns the encoding identifiers that decoded_content() can process. In scalar context returns a comma separated string of identifiers.
This value is suitable for initializing the C<Accept-Encoding> request header field.

=item $mess->decode

This method tries to replace the content of the message with the decoded version and removes the C<Content-Encoding> header. Returns TRUE if successful and FALSE if not.

If the message does not have a C<Content-Encoding> header this method does nothing and returns TRUE.

Note that the content of the message is still bytes after this method has been called and you still need to call decoded_content() if you want to process its content as a string.

=item $mess->encode( $encoding, ... )

Apply the given encodings to the content of the message. Returns TRUE if successful. The "identity" (non-)encoding is always supported; other currently supported encodings, subject to availability of required additional modules, are "gzip", "deflate", "x-bzip2" and "base64". A successful call to this function will set the C<Content-Encoding> header.

Note that C<multipart/*> or C<message/*> messages can't be encoded and this method will croak if you try.

=item $mess->parts

=item $mess->parts( @parts )

=item $mess->parts( \@parts )

Messages can be composite, i.e. contain other messages. The composite messages have a content type of C<multipart/*> or C<message/*>. This method give access to the contained messages.

The argumentless form will return a list of C<HTTP::Message> objects. If the content type of $msg is not C<multipart/*> or C<message/*> then this will return the empty list. In scalar context only the first object is returned. The returned message parts should be regarded as read-only (future versions of this library might make it possible to modify the parent by modifying the parts).

If the content type of $msg is C<message/*> then there will only be
one part returned.

If the content type is C<message/http>, then the return value will be either an C<HTTP::Request> or an C<HTTP::Response> object.

If a @parts argument is given, then the content of the message will be modified. The array reference form is provided so that an empty list can be provided. The @parts array should contain C<HTTP::Message> objects. The @parts objects are owned by $mess after this call and should not be modified or made part of other messages.

When updating the message with this method and the old content type of $mess is not C<multipart/*> or C<message/*>, then the content type is set to C<multipart/mixed> and all other content headers are cleared.

This method will croak if the content type is C<message/*> and more than one part is provided.

=item $mess->add_part( $part )

This will add a part to a message. The $part argument should be another C<HTTP::Message> object. If the previous content type of $mess is not C<multipart/*> then the old content (together with all content headers) will be made part #1 and the content type made C<multipart/mixed> before the new part is added. The $part object is owned by $mess after this call and should not be modified or made part of other messages.

There is no return value.

=item $mess->clear

Will clear the headers and set the content to the empty string. There is no return value

=item $mess->protocol

=item $mess->protocol( $proto )

Sets the HTTP protocol used for the message. The protocol() is a string like C<HTTP/1.0> or C<HTTP/1.1>.

=item $mess->clone

Returns a copy of the message object.

=item $mess->as_string
=item $mess->as_string( $eol )

Returns the message formatted as a single string.

The optional $eol parameter specifies the line ending sequence to use. The default is "\n". If no $eol is given then as_string will ensure that the returned string is newline terminated (even when the message content is not). No extra newline is appended if an explicit $eol is passed.

==item $mess->dump( %opt )

Returns the message formatted as a string. In void context print the string.

This differs from C<< $mess->as_string >> in that it escapes the bytes of the content so that it's safe to print them and it limits how much content to print. The escapes syntax used is the same as for Perl's double quoted strings. If there is no content the string "(no content)" is shown in its place.

Options to influence the output can be passed as key/value pairs. The following options are recognized:

=over

=item maxlength => $num

How much of the content to show. The default is 512. Set this to 0 for unlimited.

If the content is longer then the string is chopped at the limit and the string "...\n(### more bytes not shown)" appended.

=item no_content => $str

Replaces the "(no content)" marker.

=item prefix => $str

A string that will be prefixed to each line of the dump.

=back

=back

All methods unknown to C<HTTP::Message> itself are delegated to the C<HTTP::Headers> object that is part of every message. This allows convenient access to these methods. Refer to L<HTTP::Headers> for
details of these methods:

`$mess->header( $field => $val )`
`$mess->push_header( $field => $val )`
`$mess->init_header( $field => $val )`
`$mess->remove_header( $field )`
`$mess->remove_content_headers`
`$mess->header_field_names`
`$mess->scan( \&doit )`

`$mess->date`
`$mess->expires`
`$mess->if_modified_since`
`$mess->if_unmodified_since`
`$mess->last_modified`
`$mess->content_type`
`$mess->content_encoding`
`$mess->content_length`
`$mess->content_language`
`$mess->title`
`$mess->user_agent`
`$mess->server`
`$mess->from`
`$mess->referer`
`$mess->wwwAuthenticate`
`$mess->authorization`
`$mess->proxyAuthorization`
`$mess->authorizationBasic`
`$mess->proxyAuthorizationBasic`

=head1 COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1138401266_1614282136.65/0/libhttp-message-perl-6-06-orig-1.tar.gz/HTTP-Message-6.06/lib/HTTP/Message.pm
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=head1 NAME

HTTP::Headers::Util - Header value parsing utility functions

=head1 SYNOPSIS
use HTTP::Headers::Util qw(split_header_words);
@values = split_header_words($h->header("Content-Type"));

=head1 DESCRIPTION

This module provides a few functions that helps parsing and construction of valid HTTP header values. None of the functions are exported by default.

The following functions are available:

=item split_header_words( @header_values )

This function will parse the header values given as argument into a list of anonymous arrays containing key/value pairs. The function knows how to deal with ",", ";" and "=" as well as quoted values after "=". A list of space separated tokens are parsed as if they were separated by ";".

If the @header_values passed as argument contains multiple values, then they are treated as if they were a single value separated by comma ",".

This means that this function is useful for parsing header fields that follow this syntax (BNF as from the HTTP/1.1 specification, but we relax the requirement for tokens).

headers     = #header
header      = (token | parameter) *( [";" ] (token | parameter))

token       = 1*<any CHAR except CTLs or separators>
separators  = "(" | ")" | "<" | ">" | "@"
               | ";" | ";" | ";" | "\" | ">
               | "\" | "\" | "\" | "\" | "\"
               | "(" | ")" | SP | HT

quoted-string = ( "" *qdtext | quoted-pair ) "" )
qdtext       = <any TEXT except ">
quoted-pair  = "\" CHAR

parameter    = attribute "=" value
attribute    = token
value        = token | quoted-string

Each I<header> is represented by an anonymous array of key/value
pairs. The keys will be all be forced to lower case. The value for a simple token (not part of a parameter) is C<undef>. Syntactically incorrect headers will not necessarily be parsed as you would want.

This is easier to describe with some examples:

```perl
split_header_words('foo="bar"; port="80,81"; DISCARD, BAR=bar');
split_header_words('text/html; charset="iso-8859-1"');
split_header_words('Basic realm="\"foo\\bar\""');
```

will return

```perl
[foo=>'bar', port=>'80,81', discard=> undef], [bar=>'bar']
["text/html" => undef, charset => 'iso-8859-1']
["Basic => undef, realm => "\"foo\\bar\"""]
```

If you don't want the function to convert tokens and attribute keys to lower case you can call it as C<_split_header_words> instead (with a leading underscore).

```perl
=item join_header_words( @arrays )
```

This will do the opposite of the conversion done by split_header_words(). It takes a list of anonymous arrays as arguments (or a list of key/value pairs) and produces a single header value. Attribute values are quoted if needed.

Example:

```perl
join_header_words("text/plain" => undef, charset => "iso-8859/1");
join_header_words("text/plain" => undef, charset => "iso-8859/1");
```

will both return the string:

```
text/plain; charset="iso-8859/1"
```

=head1 COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1138401266_1614282136.65/0/libhttp-message-perl-6-06-orig-1-tar-gz/HTTP-Message-
1.4132 libsodium 1.0.10
1.4132.1 Available under license:

/*
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 */

1.4133 grub 2.02~beta2-9ubuntu1.16
1.4133.1 Available under license:

Name: GNU GRUB
Source: http://www.gnu.org/software/grub/

Files: *
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Files: debian/*
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Files: debian/grub-extras/*
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Files: themes/starfield/*
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From 2252bec27ced3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch

---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaaf4..ebafdf99 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+#include <grub/dl.h>
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Version 3, 29 June 2007

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1.4136 grep 2.20-3.el7

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anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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1.4152 psycopg 2.4.5 1build5

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The precise terms and conditions for copying, distribution and modification follow.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Russ Allbery
Nick Andrew
Dimitry Andric
Danny Barron
Tom Bates
Zdenek Behan
Ray Bellis
Elias Benali
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Spider Boardman
Jakub Bogusz
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Name: custompalette
Columns: 4
#
0 0 0 Index 3
65 38 30 Index 4
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11

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10x20-ISO8859-1.pcf

(from https://packages.ubuntu.com/xenial/xfonts-base)

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GIMP Palette
Name: badpalettefile
Columns: 4
#
 0 0 0   Index 3
01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
103 62 49   Index 6
 79 73 72   Index 7
114 101  97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11
GIMP Palette
Name: Test
Columns: 0
#
GIMP Palette
Name: badpaletteentry
Columns: 4
#
 0 0 0   Index 3
 65 38
103 62 49   Index 6
 79 73 72   Index 7
114 101  97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11

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1.4165 log-rotate 3.8.7-1ubuntu1.2

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1.4172 hk2-utils 2.5.0-b30
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- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableMap.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/SingletonImmutableBiMap.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/Table.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/UnmodifiableIterator.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/UnmodifiableListMultimap.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/primitives/Shorts.java
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- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedSet.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/FlatMap.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/FlatMapEntrySet.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/StandardRowSortedTable.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/Platform.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/Serialization.java
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- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/Hashtab.java
- /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/FluentIterable.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/DiscreteDomains.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultiset.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collect/SingletonImmutableList.java
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jar/jersey/repackaged/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collect/ForwardingMultimap.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collect/ReverseNaturalOrdering.java

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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collection/ImmutableEnumMap.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableMap.java
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1.4178 envoy 1.8.1

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```python
envoy_cc_binary(
    name = "envoy-static",
    stamped = True,
)
```

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envoy_cc_binary(
    name = "envoy-static",
    stamped = True,
)

1.4179 snappy 1.0.4

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1.4180 perl-http-negotiate 6.01-5.el7

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=head1 NAME

HTTP::Negotiate - choose a variant to serve

=head1 SYNOPSIS

use HTTP::Negotiate qw(choose);

# ID       QS     Content-Type   Encoding  Char-Set        Lang   Size
$variants =
[['var1', 1.000, 'text/html',   undef,   'iso-8859-1',   'en',   3000],
 ['var2', 0.950, 'text/plain',  'gzip',  'us-ascii',     'no',    400],
 ['var3', 0.3,   'image/gif',   undef,   undef,          undef, 43555],
];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

=head1 DESCRIPTION

This module provides a complete implementation of the HTTP content
negotiation algorithm specified in F<draft-ietf-http-v11-spec-00.ps>
chapter 12. Content negotiation allows for the selection of a
preferred content representation based upon attributes of the
negotiable variants and the value of the various Accept* header fields
in the request.

The variants are ordered by preference by calling the function
choose().

The first parameter is reference to an array of the variants to
choose among.
Each element in this array is an array with the values [$id, $qs,
Scontent_type, $content_encoding, Scharset, $content_language,
$content_length] whose meanings are described
below. The $content_encoding and $content_language can be either a
single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request
object which is searched for "Accept*" headers. If this
parameter is missing, then the accept specification is initialized
from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET,
HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). I<E.g.>:

(["var1", 1, 2000], ["var2", 0.3, 512], ["var3", 0.3, 1024]);

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or C<undef> if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

=head1 VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use C<undef> instead.

=over 3

=item identifier

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().

=item qs

This is a number between 0.000 and 1.000 that describes the "source quality". This is what F<draft-ietf-http-v11-spec-00.ps> says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".

=item content-type
This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

```
text/html
text/html;version=2.0
text/plain
image/gif
image/jpg
```

=item content-encoding

This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

```
gzip
compress
```

=item content-charset

This is the character set used when the variant contains text. The charset value should generally be C<undef> or one of these:

```
us-ascii
iso-8859-1 ... iso-8859-9
iso-2022-jp
iso-2022-jp-2
iso-2022-kr
unicode-1-1
unicode-1-1-utf-7
unicode-1-1-utf-8
```

=item content-language

This describes one or more languages that are used in the variant. Language is described like this in F<draft-ietf-http-v11-spec-00.ps>: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

```
no               Norwegian
en               International English
en-US            US English
```
en-cockney

=content-length

This is the number of bytes used to represent the content.

=back

=head1 ACCEPT HEADERS

The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from F<draft-ietf-http-v11-spec-00.ps>):

=over 3

=item Accept

This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.

For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

=item Accept-Charset

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1
Accept-Encoding

Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

Accept-Language

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension)."
NAME
HTTP::Negotiate - choose a variant to serve

SYNOPSIS
use HTTP::Negotiate qw(choose);

#!/ ID QS Content-Type Encoding Char-Set Lang Size
$variants =
    [['var1', 1.000, 'text/html', undef, 'iso-8859-1', 'en', 3000],
     ['var2', 0.950, 'text/plain', 'gzip', 'us-ascii', 'no', 400],
     ['var3', 0.3, 'image/gif', undef, undef, undef, 43555],
    ];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

DESCRIPTION
This module provides a complete implementation of the HTTP content negotiation algorithm specified in draft-ietf-http-v11-spec-00.ps chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [$id, $qs, $content_type, $content_encoding, $charset, $content_language, $content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). *E.g.*:

    (["var1", 1, 2000], ["var2", 0.3, 512], ["var3", 0.3, 1024]);
Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or `undef' if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

VARIANTS
A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use `undef' instead.

identifier
This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().

qs This is a number between 0.000 and 1.000 that describes the "source quality". This is what draft-ietf-http-v11-spec-00.ps says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".

content-type
This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

  text/html
  text/html;version=2.0
  text/plain
  image/gif
  image/jpg

content-encoding
This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:
gzip
compress

content-charset
This is the character set used when the variant contains text. The
charset value should generally be `undef' or one of these:

us-ascii
iso-8859-1 ... iso-8859-9
iso-2022-jp
iso-2022-jp-2
iso-2022-kr
unicode-1-1
unicode-1-1-utf-7
unicode-1-1-utf-8

content-language
This describes one or more languages that are used in the variant.
Language is described like this in draft-ietf-http-v11-spec-00.ps: A
language is in this context a natural language spoken, written, or
otherwise conveyed by human beings for communication of information
to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

    no  Norwegian
    en  International English
    en-US  US English
    en-cockney

content-length
This is the number of bytes used to represent the content.

ACCEPT HEADERS
The following Accept* headers can be used for describing content
preferences in a request (This description is an edited extract from
draft-ietf-http-v11-spec-00.ps):

Accept
This header can be used to indicate a list of media ranges which are
acceptable as a response to the request. The "*" character is used to
group media types into ranges, with "*/" indicating all media types
and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which
represents the user's preference for that range of media types. The
parameter mbx gives the maximum acceptable size of the response
content. The default values are: q=1 and mbx=infinity. If no Accept
header is present, then the client accepts all media types with q=1.

For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

Accept-Charset
Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1

Accept-Encoding
Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

Accept-Language
This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension)."

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Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.4183 libgpg-error 1.7 4.el6

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1.4187 udisks 2.1.3-1ubuntu0.2
1.4187.1 Available under license:
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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BIRT Runtime

What is it?

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics. You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console

In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
3. generate the report by run
   genReport xxx.rptdesign
   xxx.rptdesign is the design file. If the design file is in the current directory, you have to specify it by \xxx.rptdesign

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* /opt/cola/permits/1045560687_1604651642.17/0/org-eclipse-osgi-3-10-1-v20140909-1633-sources-1-jar/runtime_readme.txt

1.4195 json-c 0.11-4.el7_0
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=head1 NAME

Error - Error/exception handling in an OO-ish way

=head1 SYNOPSIS

use Error qw(:try);

throw Error::Simple( "A simple error");

sub xyz {
...
record Error::Simple("A simple error")

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and return;
}

unlink($file) or throw Error::Simple("$file: $!", $!);

try {
    do_some_stuff();
    die "error!" if $condition;
    throw Error::Simple "Oops!" if $other_condition;
    catch Error::IO with {
        my $E = shift;
        print STDERR "File ", $E->{'-file'}, " had a problem\n";
    }
    except {
        my $E = shift;
        my $general_handler = sub { send_message $E->{-description} };
        return {
            UserException1 => $general_handler,
            UserException2 => $general_handler
        };
    }
    otherwise {
        print STDERR "Well I don't know what to say\n";
    }
    finally {
        close_the_garage_door_already(); # Should be reliable
    } # Don't forget the trailing ; or you might be surprised

=head1 DESCRIPTION

The C<Error> package provides two interfaces. Firstly C<Error> provides a procedural interface to exception handling. Secondly C<Error> is a base class for errors/exceptions that can either be thrown, for subsequent catch, or can simply be recorded.

Errors in the class C<Error> should not be thrown directly, but the user should throw errors from a sub-class of C<Error>.

=head1 PROCEDURAL INTERFACE

C<Error> exports subroutines to perform exception handling. These will be exported if the C<:try> tag is used in the C<use> line.

=over 4

=item try BLOCK CLAUSES
C<try> is the main subroutine called by the user. All other subroutines exported are clauses to the try subroutine.

The BLOCK will be evaluated and, if no error is throw, try will return the result of the block.

C<CLASSES> are the subroutines below, which describe what to do in the event of an error being thrown within BLOCK.

=item catch CLASS with BLOCK

This clauses will cause all errors that satisfy C<$err-E<gt>isa(CLASS)> to be caught and handled by evaluating C<BLOCK>.

C<BLOCK> will be passed two arguments. The first will be the error being thrown. The second is a reference to a scalar variable. If this variable is set by the catch block then, on return from the catch block, try will continue processing as if the catch block was never found. The error will also be available in C<$@>.

To propagate the error the catch block may call C<$err-E<gt>throw>

If the scalar reference by the second argument is not set, and the error is not thrown. Then the current try block will return with the result from the catch block.

=item except BLOCK

When C<try> is looking for a handler, if an except clause is found C<BLOCK> is evaluated. The return value from this block should be a HASHREF or a list of key-value pairs, where the keys are class names and the values are CODE references for the handler of errors of that type.

=item otherwise BLOCK

Catch any error by executing the code in C<BLOCK>

When evaluated C<BLOCK> will be passed one argument, which will be the error being processed. The error will also be available in C<$@>.

Only one otherwise block may be specified per try block

=item finally BLOCK

Execute the code in C<BLOCK> either after the code in the try block has successfully completed, or if the try block throws an error then C<BLOCK> will be executed after the handler has completed.
If the handler throws an error then the error will be caught, the finally block will be executed and the error will be re-thrown.

Only one finally block may be specified per try block

=head1 CLASS INTERFACE

=head2 CONSTRUCTORS

The C<Error> object is implemented as a HASH. This HASH is initialized with the arguments that are passed to it's constructor. The elements that are used by, or are retrievable by the C<Error> class are listed below, other classes may add to these.

-file
-line
-text
-value
-object

If C<-file> or C<-line> are not specified in the constructor arguments then these will be initialized with the file name and line number where the constructor was called from.

If the error is associated with an object then the object should be passed as the C<-object> argument. This will allow the C<Error> package to associate the error with the object.

The C<Error> package remembers the last error created, and also the last error associated with a package. This could either be the last error created by a sub in that package, or the last error which passed an object blessed into that package as the C<-object> argument.

=item Error->new()

See the Error::Simple documentation.

=item throw ( [ ARGS ] )

Create a new C<Error> object and throw an error, which will be caught by a surrounding C<try> block, if there is one. Otherwise it will cause the program to exit.
C<throw> may also be called on an existing error to re-throw it.

=item with ( [ ARG5S ] )

Create a new C<Error> object and returns it. This is defined for syntactic sugar, eg

    die with Some::Error ( ... );

=item record ( [ ARG5S ] )

Create a new C<Error> object and returns it. This is defined for syntactic sugar, eg

    record Some::Error ( ... )

and return;

=back

=head2 STATIC METHODS

=over 4

=item prior ( [ PACKAGE ] )

Return the last error created, or the last error associated with C<PACKAGE>

=item flush ( [ PACKAGE ] )

Flush the last error created, or the last error associated with C<PACKAGE>. It is necessary to clear the error stack before exiting the package or uncaught errors generated using C<record> will be reported.

    $Error->flush;

=cut

=back

=head2 OBJECT METHODS

=over 4

=item stacktrace

If the variable C<$Error::Debug> was non-zero when the error was created, then C<stacktrace> returns a string created by calling
C<Carp::longmess>. If the variable was zero the C<stacktrace> returns the text of the error appended with the filename and line number of where the error was created, providing the text does not end with a newline.

=item object

The object this error was associated with

=item file

The file where the constructor of this error was called from

=item line

The line where the constructor of this error was called from

=item text

The text of the error

=item $err->associate($obj)

Associates an error with an object to allow error propagation. I.e:

$ber->encode(...) or
    return Error->prior($ber)->associate($ldap);

=back

=head2 OVERLOAD METHODS

=over 4

=item stringify

A method that converts the object into a string. This method may simply return the same as the C<text> method, or it may append more information. For example the file name and line number.

By default this method returns the C<text> argument that was passed to the constructor, or the string C<"Died"> if none was given.

=item value

A method that will return a value that can be associated with the error. For example if an error was created due to the failure of a system call, then this may return the numeric value of C<$!> at the
By default this method returns the C<-value> argument that was passed to the constructor.

=head1 PRE-DEFINED ERROR CLASSES

=head2 Error::Simple

This class can be used to hold simple error strings and values. It's constructor takes two arguments. The first is a text value, the second is a numeric value. These values are what will be returned by the overload methods.

If the text value ends with C<at file line 1> as $@ strings do, then this information will be used to set the C<-file> and C<-line> arguments of the error object.

This class is used internally if an eval'd block die's with an error that is a plain string. (Unless C<$Error::ObjectifyCallback> is modified)

=head1 $Error::ObjectifyCallback

This variable holds a reference to a subroutine that converts errors that are plain strings to objects. It is used by Error.pm to convert textual errors to objects, and can be overridden by the user.

It accepts a single argument which is a hash reference to named parameters. Currently the only named parameter passed is C<text> which is the text of the error, but others may be available in the future.

For example the following code will cause Error.pm to throw objects of the class MyError::Bar by default:

```perl
sub throw_MyError_Bar
{
  my $args = shift;
  my $err = MyError::Bar->new();
  $err->{'MyBarText'} = $args->{'text'};
  return $err;
}
```
# Error handling here.

=cut

=head1 MESSAGE HANDLERS

C<Error> also provides handlers to extend the output of the C<warn()> perl function, and to handle the printing of a thrown C<Error> that is not caught or otherwise handled. These are not installed by default, but are requested using the C<warn()> tag in the C<use> line.

use Error qw( :warndie );

These new error handlers are installed in C<$SIG{__WARN__}> and C<$SIG{__DIE__}>. If these handlers are already defined when the tag is imported, the old values are stored, and used during the new code. Thus, to arrange for custom handling of warnings and errors, you will need to perform something like the following:

BEGIN {
  $SIG{__WARN__} = sub {
    print STDERR "My special warning handler: $_[0]"
  };
}

use Error qw( :warndie );

Note that setting C<$SIG{__WARN__}> after the C<:warndie> tag has been imported will overwrite the handler that C<Error> provides. If this cannot be avoided, then the tag can be explicitly C<import>ed later

use Error;

$SIG{__WARN__} = ...;

import Error qw( :warndie );

=head2 EXAMPLE

The C<__DIE__> handler turns messages such as

Can't call method "foo" on an undefined value at examples/warndie.pl line 16.

into

Unhandled perl error caught at toplevel:
Can't call method "foo" on an undefined value

Thrown from: examples/warndie.pl:16

Full stack trace:

main::inner('undef') called at examples/warndie.pl line 20
main::outer('undef') called at examples/warndie.pl line 23

=cut

=head1 KNOWN BUGS

None, but that does not mean there are not any.

=head1 AUTHORS

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The code that inspired me to write this was originally written by
Peter Seibel <peter@weblogic.com> and adapted by Jesse Glick
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C<:warndie> handlers added by Paul Evans <leonerd@leonerd.org.uk>

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=cut

Found in path(s):
* /opt/cola/permits/1137305883_1614052218.34/0/liberror-perl-0-17-orig-1-tar-gz/Error-0.17010/lib/Error.pm
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---
name: Error
version: 0.17010
author:
  - 'Graham Barr <gbarr@pobox.com>'
abstract: Error/exception handling in an OO-ish way
license: perl
resources:
  license: http://dev.perl.org/licenses/
requires:
  Scalar::Util: 0
provides:
  Error:
    file: lib/Error.pm
    version: 0.17010
  Error::Simple:
    file: lib/Error.pm
  Error::WarnDie:
    file: lib/Error.pm
  Error::subs:
    file: lib/Error.pm
generated_by: Module::Build version 0.2805
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.2.html
  version: 1.2

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may
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As an exception to the Sections above, you may also combine or
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of these things:

Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

Accompany the work with a written offer, valid for at
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reproducing the executable from it. However, as a special exception,
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Ty Coon, President of Vice

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.4.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/progressbar.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery.dataTables.min.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

========

For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

Open Source Used In Tetration 3.5.1 45706
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The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written by mortbay.org.
Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.4208 ebtables 2.0.10 16.el7
1.4208.1 Available under license:

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<title of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.4209 libcgroup 0.41 21.el7
1.4209.1 Available under license:

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1.4210 perl-extutils-manifest 1.61-244.el7

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

Open Source Used In Tetration 3.5.1 45753
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The "Artistic License"

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1.4213 cpp 4.4.7-23.el6
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy 
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However, linking a "work that uses the Library" with the Library 
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When a "work that uses the Library" uses material from a header file 
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.4214 binutils 2.24-5ubuntu14.2

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
pcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on 
the original authors' reputations.

Finally, any free program is threatened constantly by software 
patents. We wish to avoid the danger that companies distributing free 
software will individually obtain patent licenses, thus in effect 
transforming the program into proprietary software. To prevent this, 
we have made it clear that any patent must be licensed for everyone's 
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary 
GNU General Public License, which was designed for utility programs. This 
license, the GNU Library General Public License, applies to certain 
designated libraries. This license is quite different from the ordinary 
one; be sure to read it in full, and don't assume that anything in it is 
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that 
they blur the distinction we usually make between modifying or adding to a 
program and simply using it. Linking a program with a library, without 
changing the library, is in some sense simply using the library, and is 
analogous to running a utility program or application program. However, in 
a textual and legal sense, the linked executable is a combined work, a 
derivative of the original library, and the ordinary General Public License 
treats it as such.

Because of this blurred distinction, using the ordinary General 
Public License for libraries did not effectively promote software 
sharing, because most developers did not use the libraries. We 
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the 
users of those programs of all benefit from the free status of the 
libraries themselves. This Library General Public License is intended to 
permit developers of non-free programs to use free libraries, while 
preserving your freedom as a user of such programs to change the free 
libraries that are incorporated in them. (We have not seen how to achieve 
this as regards changes in header files, but we have achieved it as regards 
changes in the actual functions of the Library.) The hope is that this 
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and 
modification follow. Pay close attention to the difference between a 
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former contains code derived from the library, while the latter only 
works together with the library.

Note that it is possible for a library to be covered by the ordinary
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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

—one line to give the library's name and a brief idea of what it does.—>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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the version number 2.1.]

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can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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it in new free programs; and that you are informed that you can do
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library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@ifdefinizione
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1.4222 llvm-private 7.0.1 1.el7
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; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
CF246:                                            ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248
CF248:                                            ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}
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define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject : NSObject
@end
@interface NSString : NSObject
@end
void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}

static NSString *_logProcessPrefix = 0;
void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}

@implementation NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {
    __setRetained(&_logProcessPrefix, processPrefix, &_logProcessPrefix);
}
@end

@interface Derived: NSObject
@end

NSObject *ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);

@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument types).
    // Since registerFunc: expects a Derived object as it's second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc];  // expected-warning{{incompatible pointer types sending 'NSObject *
    *(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

// rdar://10751015
@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class 'ForwarClass' to protocol 'NSCopying' can not be confirmed}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {
    [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type 'id<NSCopying>'}}
    id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwarClass *'}}
}
return id_ns; // expected-warning {{returning ‘id<NSCopying>’ from a function with incompatible result type 'ForwardClass *'}}
}

hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !
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<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
<td>ARM contributions</td>
<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
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<tr>
<td>md5 contributions</td>
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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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// RUN: %clang_analyze_cc1 -analyzer-checker=core,unix.cstring.NullArg,alpha.unix.cstring,debug.ExprInspection -analyzer-store=region -verify %s

#define NULL ((void *)0)

typedef __typeof(sizeof(int)) size_t;
size_t strlcpy(char *dst, const char *src, size_t n);
size_t strlcat(char *dst, const char *src, size_t n);
void clang_analyzer_eval(int);

void f1() {
    char overlap[] = "123456789";
    strlcpy(overlap, overlap + 1, 3); // expected-warning{{Arguments must not be overlapping buffers}}
}

void f2() {
    char buf[5];
    strlcpy(buf, "abcd", sizeof(buf)); // expected-no-warning
strlcat(buf, "efgh", sizeof(buf)); // expected-warning{{Size argument is greater than the free space in the destination buffer}}
}

void f3() {
    char dst[2];
    const char *src = "abcdef";
    strlcpy(dst, src, 5); // expected-warning{{Size argument is greater than the length of the destination buffer}}
}

void f4() {
    strlcpy(NULL, "abcdef", 6); // expected-warning{{Null pointer argument in call to string copy function}}
}

void f5() {
    strlcat(NULL, "abcdef", 6); // expected-warning{{Null pointer argument in call to string copy function}}
}

void f6() {
    char buf[8];
    strlcpy(buf, "abc", 3);
    size_t len = strlcat(buf, "defg", 4);
    clang_analyzer_eval(len == 7); // expected-warning{{TRUE}}
}

int f7() {
    char buf[8];
    return strlcpy(buf, "1234567", 0); // no-crash
}

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-------
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
    entry:
        br i1 undef, label %while.end, label %while.body.lr.ph
while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
  i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i
]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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LLVM Team

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<th>Program</th>
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<td>&lt;none yet&gt;</td>
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<td>LLVM System Interface Library</td>
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; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually puts fp128 values in SSE registers.

declare fp128 @llvm.fabs.fp128(fp128)
declare fp128 @llvm.copysign.fp128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}
define fp128 @TestFabs(fp128 %a) {
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}
define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000000000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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1.4224 swagger-jaxrs 1.5.10

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* javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
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*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*/opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c

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* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
*/

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* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h
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$Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $

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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. You should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.
Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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1.4239 libnet-smtp-ssl-perl 1.01-3
**1.4239.1 Available under license:**

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**NAME**

Net::SMTP::SSL - SSL support for Net::SMTP

**SYNOPSIS**

```perl
use Net::SMTP::SSL;

my $smtps = Net::SMTP::SSL->new("example.com", Port => 465);
```

**DESCRIPTION**

Implements the same API as Net::SMTP, but uses IO::Socket::SSL for its network operations. Due to the nature of "Net::SMTP"'s "new" method, it is not overridden to make use of a default port for the SMTPS service. Perhaps future versions will be smart like that. Port 465 is usually what you want, and it's not a pain to specify that.

For interface documentation, please see Net::SMTP.

**SEE ALSO**

Net::SMTP, IO::Socket::SSL, perl.

**AUTHOR**

Casey West, <casey@geeknest.com>.

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Found in path(s):
* /opt/cola/permits/1138401275_1614282236.26/0/libnet-smtp-ssl-perl-1-01-orig-1-tar-gz/Net-SMTP-SSL-1.01/README

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```perl
=head1 NAME

Net::SMTP::SSL - SSL support for Net::SMTP

=head1 SYNOPSIS

use Net::SMTP::SSL;

my $smtps = Net::SMTP::SSL->new("example.com", Port => 465);
```
Implements the same API as L<Net::SMTP> for its network operations. Due to the nature of C<Net::SMTP>’s C<new> method, it is not overridden to make use of a default port for the SMTPS service. Perhaps future versions will be smart like that. Port C<465> is usually what you want, and it’s not a pain to specify that.

For interface documentation, please see L<Net::SMTP>.

=head1 SEE ALSO

L<Net::SMTP>,
L<IO::Socket::SSL>,
L<perl>.

=head1 AUTHOR

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cut

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1.4240 jsr311-api 1.1.1
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may be obtained from http://java.sun.com/xml/ns/javaee/

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When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left
scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.
Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5] SIL International
* [6] Open Font Library
* [7] Software Freedom Law Center
* [8] Google Font API

**Document embedding**

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10] SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See [11] OFL-FAQ for details.
* [12] GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

**Long-term licensing**

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13] Copyright assignment will be required so that the Ubuntu Font
Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interium. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

1. Document embedding (see embedding section above).
2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:
8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: ofl-1.1-ufl-1.0.diff.html
References

13. https://launchpad.net/~uff-contributors

Copyright 2010,2011 Canonical Ltd.

This Font Software is licensed under the Ubuntu Font Licence, Version 1.0. https://launchpad.net/ubuntu-font-licence
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Ubuntu Font Family
Upstream-Contact: Paul Sladen <ubuntu@paul.sladen.org>
Source: http://font.ubuntu.com/

Files: *
Copyright: 20102011, Canonical Ltd
License: Ubuntu Font Licence 1.0

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UBUNTU FONT LICENCE Version 1.0
-------------------------------

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(b) Modified Versions which are Substantially Changed must be renamed to avoid use of the name of the Original Version or similar names entirely.
(c) Modified Versions which are not Substantially Changed must be renamed to both (i) retain the name of the Original Version and (ii) add additional naming elements to distinguish the Modified Version from the Original Version. The name of such Modified Versions must be the name of...
the Original Version, with "derivative X" where X represents the name of the new work, appended to that name.

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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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  Gnomovision version 69, Copyright (C) 19yy name of author
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necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

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consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.
1.4245 perl-threads 1.87 4.el7

1.4246 antlr-runtime 4.3

1.4247 libfont-afm-perl 1.20-1

1.4247.1 Available under license:

No license file was found, but licenses were detected in source scan.

# Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

Found in path(s):
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaBold.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaBoldOblique.pm

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Found in path(s):
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesItalic.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesBold.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesBoldItalic.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesRoman.pm

No license file was found, but licenses were detected in source scan.

license:         ~

Found in path(s):
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/META.yml

No license file was found, but licenses were detected in source scan.

=head1 NAME
Font::AFM - Interface to Adobe Font Metrics files

=head1 SYNOPSIS

use Font::AFM;
$h = new Font::AFM "Helvetica";
$copyright = $h->Notice;
$w = $h->Wx->{"aring"};
$w = $h->stringwidth("Gisle", 10);
$h->dump;  # for debugging

=head1 DESCRIPTION

This module implements the Font::AFM class. Objects of this class are initialised from an AFM (Adobe Font Metrics) file and allow you to obtain information about the font and the metrics of the various glyphs in the font.

All measurements in AFM files are given in terms of units equal to 1/1000 of the scale factor of the font being used. To compute actual sizes in a document, these amounts should be multiplied by (scale factor of font)/1000.

The following methods are available:

=over 3

=item $afm = Font::AFM->new($fontname)

Object constructor. Takes the name of the font as argument. Croaks if the font can not be found.

=item $afm->latin1_wx_table()

Returns a 256-element array, where each element contains the width of the corresponding character in the iso-8859-1 character set.

=item $afm->stringwidth($string, [$fontsize])

Returns the width of the argument string. The string is assumed to be encoded in the iso-8859-1 character set. A second argument can be used to scale the width according to the font size.

=item $afm->FontName

The name of the font as presented to the PostScript language C<findfont> operator, for instance "Times-Roman".

=item $afm->FullName
Unique, human-readable name for an individual font, for instance "Times Roman".

=item $afm->FamilyName

Human-readable name for a group of fonts that are stylistic variants of a single design. All fonts that are members of such a group should have exactly the same C<FamilyName>. Example of a family name is "Times".

=item $afm->Weight

Human-readable name for the weight, or "boldness", attribute of a font. Examples are C<Roman>, C<Bold>, C<Light>.

=item $afm->ItalicAngle

Angle in degrees counterclockwise from the vertical of the dominant vertical strokes of the font.

=item $afm->IsFixedPitch

If C<true>, the font is a fixed-pitch (monospaced) font.

=item $afm->FontBBox

A string of four numbers giving the lower-left x, lower-left y, upper-right x, and upper-right y of the font bounding box. The font bounding box is the smallest rectangle enclosing the shape that would result if all the characters of the font were placed with their origins coincident, and then painted.

=item $afm->UnderlinePosition

Recommended distance from the baseline for positioning underline strokes. This number is the y coordinate of the center of the stroke.

=item $afm->UnderlineThickness

Recommended stroke width for underlining.

=item $afm->Version

Version number of the font.

=item $afm->Notice
Trademark or copyright notice, if applicable.

=item $afm->Comment

Comments found in the AFM file.

=item $afm->EncodingScheme

The name of the standard encoding scheme for the font. Most Adobe fonts use the C<AdobeStandardEncoding>. Special fonts might state C<FontSpecific>.

=item $afm->CapHeight

Usually the y-value of the top of the capital H.

=item $afm->XHeight

Typically the y-value of the top of the lowercase x.

=item $afm->Ascender

Typically the y-value of the top of the lowercase d.

=item $afm->Descender

Typically the y-value of the bottom of the lowercase p.

=item $afm->Wx

Returns a hash table that maps from glyph names to the width of that glyph.

=item $afm->BBox

Returns a hash table that maps from glyph names to bounding box information. The bounding box consist of four numbers: llx, lly, urx, ury.

=item $afm->dump

Dumps the content of the Font::AFM object to STDOUT. Might sometimes be useful for debugging.

=back

The AFM specification can be found at:
=head1 ENVIRONMENT
=over 10
=item METRICS
Contains the path to search for AFM-files. Format is as for the PATH environment variable. The default path built into this library is:

/usr/lib/afm:/usr/local/lib/afm:/usr/openwin/lib/fonts/afm/:
=back

=head1 BUGS

Kerning data and composite character data are not yet parsed.
Ligature data is not parsed.

=head1 COPYRIGHT

Copyright 1995-1998 Gisle Aas. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
=cut

Found in path(s):
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/AFM.pm
No license file was found, but licenses were detected in source scan.

NAME
Font::AFM - Interface to Adobe Font Metrics files

SYNOPSIS
use Font::AFM;
$fh = new Font::AFM "Helvetica";
$copyright = $fh->Notice;
$w = $fh->Wx->{"aring"};
$w = $fh->stringwidth("Gisle", 10);
$fh->dump; # for debugging

DESCRIPTION
This module implements the Font::AFM class. Objects of this class are initialised from an AFM-file and allows you to obtain information about the font and the metrics of the various glyphs in the font.

All measurements in AFM files are given in terms of units equal to 1/1000 of the scale factor of the font being used. To compute actual sizes in a document, these amounts should be multiplied by (scale factor of font)/1000.

The following methods are available:

$afm = Font::AFM->new($fontname)
Object constructor. Takes the name of the font as argument. It will croak if the font can not be found.

$afm->latin1_wx_table()
Returns a 256 element array, where each element contains the width of the corresponding character in the iso-8859-1 character set.

$afm->stringwidth($string, [$fontsize])
Returns the width of the string passed as argument. The string is assumed to be encoded in the iso-8859-1 character set. A second argument can be used to scale the width according to the font size.

$afm->FontName
The name of the font as presented to the PostScript language `findfont' operator, for instance "Times-Roman".

$afm->FullName
Unique, human-readable name for an individual font, for instance "Times Roman".

$afm->FamilyName
Human-readable name for a group of fonts that are stylistic variants of a single design. All fonts that are member of such a group should have exactly the same `FamilyName'. Example of a family name is "Times".

$afm->Weight
Human-readable name for the weight, or "boldness", attribute of a font. Examples are `Roman', `Bold', `Light'.

$afm->ItalicAngle
Angle in degrees counterclockwise from the vertical of the dominant vertical strokes of the font.
$afm->IsFixedPitch
If the value is `true', it indicated that the font is a
fixed-pitch (monospaced) font.

$afm->FontBBox
A string of four numbers giving the lower-left x, lower-left
y, upper-right x, and upper-right y of the font bounding box.
The font bounding box is the smallest rectangle enclosing the
shape that would result if all the characters of the font
were placed with their origins coincident, and then painted.

$afm->UnderlinePosition
Recommended distance from the baseline for positioning
underline stokes. This number is the y coordinate of the
center of the stroke.

$afm->UnderlineThickness
Recommended stroke width for underlining.

$afm->Version
Version number of the font.

$afm->Notice
Trademark or copyright notice, if applicable.

$afm->Comment
Comments found in the AFM file.

$afm->EncodingScheme
The name of the standard encoding scheme for the font. Most
Adobe fonts use the `AdobeStandardEncoding'. Special fonts
might state `FontSpecific'.

$afm->CapHeight
Usually the y-value of the top of the capital H.

$afm->XHeight
Typically the y-value of the top of the lowercase x.

$afm->Ascender
Typically the y-value of the top of the lowercase d.

$afm->Descender
Typically the y-value of the bottom of the lowercase p.

$afm->Wx
Returns a hash table that maps from glyph names to the width
of that glyph.

$afm->BBox

Returns a hash table that maps from glyph names to bounding box information. The bounding box consist of 4 numbers: llx, lly, urx, ury.

$afm->dump

Dumps the content of the Font::AFM object to STDOUT. Might sometimes be useful for debugging.

The AFM specification can be found at:


ENVIRONMENT

METRICS  Contains the path to search for AFM-files. Format is as for the PATH environment variable. The default path built into this library is:

/usr/lib/afm:/usr/local/lib/afm:/usr/openwin/lib/fonts/afm:/.

BUGS

Kerning data and composite character data is not yet parsed.
Ligature data is not parsed.

COPYRIGHT

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This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/README
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1989 Adobe Systems Incorporated. All rights reserved.

Found in path(s):
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierOblique.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierBold.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierBoldOblique.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/Courier.pm
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

Found in path(s):
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaOblique.pm
* /opt/cola/permits/1138400880_1614281808.08/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/Helvetica.pm

1.4248 libmailtools-perl 2.12-1

1.4248.1 Available under license:

No license file was found, but licenses were detected in source scan.

---
abstract: 'Various e-mail related modules'
author:
- 'Mark Overmeer <perl@overmeer.net>,'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: MailTools
no_index:
directory:
  - t
  - inc
requires:
  Date::Format: 0
  Date::Parse: 0
  IO::Handle: 0
  Net::Domain: 1.05
  Net::SMTP: 1.03
  Test::More: 0
  version: 2.12

Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-2.12/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Mail::Field::AddrList - object representation of e-mail address lists

=head1 INHERITANCE

Mail::Field::AddrList
is a Mail::Field

=head1 SYNOPSIS

use Mail::Field::AddrList;

$to   = Mail::Field->new('To');
$from = Mail::Field->new('From', 'poe@daimi.aau.dk (Peter Orbaek)');

$from->create('foo@bar.com' => 'Mr. Foo', poe => 'Peter');
$from->parse('foo@bar.com (Mr Foo), Peter Orbaek <poe>');

# make a RFC822 header string
print $from->stringify(),"\n";

# extract e-mail addresses and names
@addresses = $from->addresses();  # strings
@names    = $from->names();       # strings
@addr     = $from->addr_list();  # Mail::Address objects (v2.00)

# adjoin a new address to the list
$from->set_address('foo@bar.com', 'Mr. Foo');

=head1 DESCRIPTION

Defines parsing and formatting of address field, for the following fields: C<To>, C<From>, C<Cc>, C<Reply-To>, and C<Sender>.

All the normally used features of the address field specification of RFC2822 are implemented, but some complex (and therefore hardly ever used) constructs will not be understood. Use Mail::Message::Field::Full in MailBox if you need full RFC compliance.

=head1 METHODS

=head2 Constructors

=over 4
=item Mail::Field::AddrList-B<gt>B<combine>(FIELDS)
See L-Mail::Field/"Constructors"

=item Mail::Field::AddrList-B<gt>B<extract>(TAG, HEAD [, INDEX ])
See L-Mail::Field/"Constructors"

=item Mail::Field::AddrList-B<gt>B<new>(TAG [, STRING | OPTIONS])
See L-Mail::Field/"Constructors"

=back

=head2 "Fake" constructors

=over 4

=item $obj-B<gt>B<create>(OPTIONS)
See L-Mail::Field/"Fake" constructors"

=item $obj-B<gt>B<parse>()
See L-Mail::Field/"Fake" constructors"

=back

=head2 Accessors

=over 4

=item $obj-B<gt>B<set>(OPTIONS)
See L-Mail::Field/"Accessors"

=item $obj-B<gt>B<stringify>()
See L-Mail::Field/"Accessors"

=item $obj-B<gt>B<tag>()
=item Mail::Field::AddrList-B<gt>B<tag>()
See L-Mail::Field/"Accessors"

=back
=head2 Smart accessors

=item $obj-E<gt>B<addr_list>()

Returns the collected L<Mail::Address|Mail::Address> objects.

=item $obj-E<gt>B<addresses>()

Returns a list if email addresses, found in the field content.

=item $obj-E<gt>B<names>()

Returns a list of nicely formatted named, for each of the addresses found in the content.

=item $obj-E<gt>B<set_address>(EMAIL, NAME)

Add/replace an EMAIL address to the field.

=item $obj-E<gt>B<text>({STRING})

See L<Mail::Field/'Smart accessors'>

=back

=head1 DIAGNOSTICS

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution, F<http://perl.overmeer.net/mailtools/>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.
Mail::Cap by Gisle Aas <aas@oslonett.no>
Mail::Field::AddrList by Peter Orbaek <poe@cit.dk>
Mail::Mailer and Mail::Send by Tim Bunce <Tim.Bunce@ig.co.uk>
For other contributors see ChangeLog.

=head1 LICENSE

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This program is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.
See F=http://www.perl.com/perl/misc/Artistic.html>

Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-2.12/lib/Mail/Field/AddrList.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Mail::Field::Generic - implementation for inspecific fields

=head1 INHERITANCE

Mail::Field::Generic
is a Mail::Field

=head1 SYNOPSIS

use Mail::Field;
my $field = Mail::Field->new('Subject', 'some subject text');
my $field = Mail::Field->new(subject => 'some subject text');

=head1 DESCRIPTION

A generic implementation for header fields without own
implementation. This is fine for fields like C<Subject>, C<X-Mailer>,
etc., where the field holds only a string of no particular
importance/format.

=head1 METHODS

=head2 Constructors

=over 4
=item Mail::Field::Generic-E>combine>(FIELDS)

See L<Mail::Field/”Constructors”>

=item Mail::Field::Generic-E>extract>(TAG, HEAD [, INDEX ])

See L<Mail::Field/”Constructors”>

=item Mail::Field::Generic-E>new>(TAG [, STRING | OPTIONS])

See L<Mail::Field/”Constructors”>

=back

=head2 ”Fake” constructors

=over 4

=item $obj-E>create>(OPTIONS)

-Option--Default
   Text " 

=over 2

=item Text => STRING

=back

=item $obj-E>parse>([STRING])

Set the new text, which is empty when no STRING is provided.

=back

=head2 Accessors

=over 4

=item $obj-E>set>(OPTIONS)

See L<Mail::Field/”Accessors”>

=item $obj-E$stringify>()

See L<Mail::Field/”Accessors”>

=item $obj-E>tag>()
See L<Mail::Field/"Accessors">
=back
=head2 Smart accessors
=over 4
=item $obj-B{text>([STRING])
See L<Mail::Field/"Smart accessors">
=back
=head1 DIAGNOSTICS
=over 4
=item Error: Undefined subroutine <method> called
Mail::Field objects use autoloading to compile new functionality.
Apparently, the method called is not implemented for the specific class of the field object.
=back
=head1 SEE ALSO
This module is part of the MailTools distribution,
F<http://perl.overmeer.net/mailtools/>.
=head1 AUTHORS
The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.
Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
For other contributors see ChangeLog.
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This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself. See F<http://www.perl.com/perl/misc/Artistic.html>

Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-2.12/lib/Mail/Field/Generic.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Mail::Internet - manipulate email messages

=head1 SYNOPSIS

use Mail::Internet;
my $msg = Mail::Internet->new(*STDIN);

=head1 DESCRIPTION

This package implements reading, creating, manipulating, and writing email messages. Sometimes, the implementation tries to be too smart, but in the general case it works as expected.

If you start writing a B<new application>, you should use the L<Mail::Box> distribution, which has more features and handles messages much better according to the RFCs. See L<http://perl.overmeer.net/mailbox/>. You may also chose L<MIME::Entity>, to get at least some multipart support in your application.

=head1 METHODS

=head2 Constructors

=over 4

=item $obj->B<dup>()

Duplicate the message as a whole. Both header and body will be deep-copied: a new L<Mail::Internet> object is returned.

=item $obj->B<extract>(ARRAY-of-LINES)

Extract header and body from an ARRAY of message lines. Requires an object already created with L<new()>L<Mail::Internet>"Constructors", which contents will get overwritten.
=item Mail::Internet-E<gt>B<new>(([ARG], [OPTIONS]))

ARG is optional and may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be initialized with headers and body either from the array of read from the file descriptor.

The L-Mail::Header::new()|Mail::Header/"Constructors" OPTIONS C-Modify>, C-MailFrom> and C-FoldLength>
may also be given.

-Option--Default

Body     []
Header   undef

=over 2

=item Body => ARRAY-of-LINES

The value of this option should be a reference to an array which contains the lines for the body of the message. Each line should be terminated with C-\n> (LF). If Body is given then C-Mail::Internet> will not attempt to read the body from C-ARG> (even if it is specified).

=item Header => Mail::Header

The value of this option should be a L-Mail::Header|Mail::Header object. If given then C-Mail::Internet> will not attempt to read a mail header from C-ARG>, if it was specified.

=back

=item $obj-E<gt>B<read>(FILEHANDLE)

Read a message from the FILEHANDLE into an already existing message object. Better use L-new()|Mail::Internet/"Constructors"> with the FILEHANDLE as first argument.

=back

=head2 Accessors

=over 4

=item $obj-E<gt>B<body>(([BODY])

Returns the body of the message. This is a reference to an array. Each entry in the array represents a single line in the message.
If I<$BODY>$ is given, it can be a reference to an array or an array, then the body will be replaced. If a reference is passed, it is used directly and not copied, so any subsequent changes to the array will change the contents of the body.

=item $obj->B<head>()

Returns the C<Mail::Header> object which holds the headers for the current message.

=back

=head2 Processing the message as a whole

=over 4

=item $obj->B<as_mbox_string>({ALREADY_ESCAPED})

Returns the message as a string in mbox format. C<ALREADY_ESCAPED>, if given and true, indicates that L<escape_from()> has already been called on this object.

=item $obj->B<as_string>()

Returns the message as a single string.

=item $obj->B<print>({FILEHANDLE})

Print the header, body or whole message to file descriptor I<FILEHANDLE>. I<$fd> should be a reference to a GLOB. If I<FILEHANDLE> is not given the output will be sent to STDOUT.

e.example:

    $mail->print(
      \*STDOUT );  # Print message to STDOUT

=item $obj->B<print_body>({FILEHANDLE})

Print only the body to the FILEHANDLE (default STDOUT).

=item $obj->B<print_header>({FILEHANDLE})

Print only the header to the FILEHANDLE (default STDOUT).

=back

=head2 Processing the header
Most of these methods are simply wrappers around methods provided by L<Mail::Header|Mail::Header>.

=back
=head2 Processing the body

=item $obj->B<remove_sig>([NLINES])

Attempts to remove a users signature from the body of a message. It does this by looking for a line equal to C<'-- '> within the last C<NLINES> of the message. If found then that line and all lines after it will be removed. If C<NLINES> is not given a default value of 10 will be used. This would be of most use in auto-reply scripts.

=item $obj->B<sign>(OPTIONS)

Add your signature to the body. L<remove_sig()|Mail::Internet/"Processing the body"> will strip existing signatures first.

-Option   --Default
 File       undef
 Signature  []

=back

=head2 High-level functionality

=item $obj->B<tidy_body>()

Removes all leading and trailing lines from the body that only contain white spaces.

=back

=head2 Processing the body

=item File => FILEHANDLE

Take from the FILEHANDLE all lines starting from the first C<< -- >>.

=item Signature => STRING|ARRAY-of-LINES

=back

=head2 High-level functionality

=item $obj->B<escape_from>()

It can cause problems with some applications if a message contains a line starting with C'<From ', in particular when attempting to split a folder. This method inserts a leading C<>' on anyline that matches the regular expression C</^>*From/>
Post an article via NNTP. Requires Net::NNTP to be installed.

-Option--Default
Debug <false>
Host <required>
Port 119

=item $obj-B{OPTIONS}B

Create a new object with header initialised for a reply to the current object. And the body will be a copy of the current message indented.

The C<.mailhdr> file in your home directory (if exists) will be read first, to provide defaults.

-Option --Default
Exclude []
Indent ‘’
Keep []
ReplyAll false

=item $obj-B{OPTIONS}B

Remove the listed FIELDS from the produced message.

=item Indent => STRING
Use as indentation string. The string may contain C<%>% to get a single C<%>,
C<%f> to get the first from name, C<%F> is the first character of C<%f>,
C<%l> is the last name, C<%L> its first character, C<%n> the whole from
string, and C<%l> the first character of each of the names in the from string.

=item Keep => ARRAY-of-FIELDS

Copy the listed FIELDS from the original message.

=item ReplyAll => BOOLEAN

Automatically include all To and Cc addresses of the original mail,
excluding those mentioned in the Bcc list.

=back

=item $obj-E<gt>B<send>([TYPE, [ARGS...]])

Send a Mail::Internet message using L-Mail::Mailer|Mail::Mailer. TYPE and ARGS are
passed on to L-Mail::Mailer::new|Mail::Mailer/"Constructors".

=item $obj-E<gt>B<smtpsend>([OPTIONS])

Send a Mail::Internet message using direct SMTP. to the given
ADDRESSES, each can be either a string or a reference to a list of email
addresses. If none of C<To>, <Cc> or C<Bcc> are given then the addresses
are extracted from the message being sent.

The return value will be a list of email addresses that the message was sent
to. If the message was not sent the list will be empty.

Requires Net::SMTP and Net::Domain to be installed.

-Option --Default
Bcc     undef
Cc      undef
Debug   <false>
Hello   localhost.localdomain
Host    $ENV{SMTPHOSTS}
MailFrom Mail::Util::mailaddress()
Port    25
To      undef

=over 2

=item Bcc => ADDRESSES

=item Cc => ADDRESSES


=item Debug => BOOLEAN

Debug value to pass to Net::SMTP, see <Net::SMTP>

=item Hello => STRING

Send a HELO (or EHLO) command to the server with the given name.

=item Host => HOSTNAME

Name of the SMTP server to connect to, or a Net::SMTP object to use

If C<Host> is not given then the SMTP host is found by attempting
connections first to hosts specified in C<$ENV{SMTPHOSTS}>, a colon
separated list, then C<mailhost> and C<localhost>.

=item MailFrom => ADDRESS

The e-mail address which is used as sender. By default,
L<Mail::Util::mailaddress()> provides the address of the sender.

=item Port => INTEGER

Port number to connect to on remote host.

=item To => ADDRESSES

=back

=item $obj-E<gt>B<unescape_from>()

Remove the escaping added by L<escape_from()>.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<http://perl.overmeer.net/mailtools/>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark
Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>. For other contributors see ChangeLog.

=head1 LICENSE

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Found in path(s):
* /opt/cola/permits/11384011220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-2.12/lib/Mail/Internet.pod

No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl -w

# Note by Mark Overmeer:
# This script does work, but Mail::Send may provide a nicer interface

# NAME
# mail-mailer.pl - Smtp client written in Perl
#
# SYNOPSIS
# mail-mailer.pl -s "Test" --smtp=my-smtp-server.com admin@net1.net
#
# INTRODUCTION
# This script can be an alternative to the 'mail' Unix command when sending e-mails.
# It reads the mail body from the standard input.
# If your system is Windows, use the '--smtp' option to send your e-mails.
# This script works in Linux, Unix and Windows environments.
#
# OPTIONS
# -f From
# -s Subject
# -cCc-address
# -bcc-address
# --sendmailUse sendmail to send the e-mail
# --qmailUse qmail-inject to send the e-mail
# --smtp=HOSTNAMEUse HOSTNAME as the SMTP server.
# --helpPrints the help info and exits
#
# EXAMPLES
# cat mailbody.txt | mail-mailer.pl -f me@mydom.com -s "Hy dude" --sendmail friend@dom.com
use Mail::Mailer;
use Getopt::Long;
use strict;

# hash that'll receive the arguments and options
my %opt;
GetOptions ( \%/opt, 'help', 'f=s', 's=s', 'c=s', 'b=s', 'sendmail', 'qmail', 'smtp=s' );

if ($opt{help}) { help(); exit 0; }

$opt{to} = $ARGV[$#ARGV]; # the "To" address is the last argument
die "Error: You didn't specify a destination e-mail address\n" unless ( $opt{to} || $opt{c} || $opt{b} );

# Defining the method to send the message
my $mailer;	# Mail::Mailer object
if ($opt{sendmail}) {
  $mailer = new Mail::Mailer 'sendmail';
} elsif ($opt{qmail}) {
  $mailer = new Mail::Mailer 'qmail';
} elsif ($opt{smtp}) {
  $mailer = new Mail::Mailer 'smtp', Server => $opt{smtp};
} else {
  die "Error: you didn't specify the delivery method. ".
  "Possible methods are:'n--qmail', '--sendmail', and '.
  '--smtp=HOSTNAME\n";
}

# Setting the headers
my %headers;	# hash with the e-mail headers
$headers{To} =$opt{to};
$headers{From} =$opt{f} if defined $opt{f};
$headers{Cc} =$opt{c} if defined $opt{c};
$headers{Bcc} =$opt{b} if defined $opt{b};
$headers{Subject} =$opt{s} if defined $opt{s};
$mailer->open(%headers);
# Reading and feeding the e-mail body
while (<STDIN>) {
last if ( $_ =~ /^\.$/ );
print $mailer $_;
}
# Finishing
$mailer->close();
# Subroutines
sub help {
print '
Example 1: Entering the e-mail body by hand:
mail-mailer.pl -s "Hy buddy" --qmail friend@domain.com
[ ENTER YOU MESSAGE BODY ]
[ A SINGLE . (dot sign) ALONE IN ONE LINE TO SAY ]
[ YOU FINISHED YOUR E-MAIL ]
.
Example 2: Using the output of another program as the body:
dir c:\ | perl mail-mailer.pl -f me@mydom.com -s "My c:\" admin@mydom.com --smtp=server1.mydom.com
OPTIONS
-f addrFrom address.
-s TEXTSubject.
-c addrCc-address.
-b addrbcc-address.
--sendmailUse sendmail to send the e-mail.
--qmailUse qmail-inject to send the e-mail.
--smtp HOSTNAMEUse HOSTNAME as the SMTP server.
--helpPrints this help text.
';
}
Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools2.12/examples/mail-mailer.pl
No license file was found, but licenses were detected in source scan.
=head1 NAME
Mail::Util - mail utility functions
=head1 INHERITANCE
Mail::Util
is a Exporter

Open Source Used In Tetration 3.5.1 46288


SYNOPSIS

use Mail::Util qw( ... );

DESCRIPTION

This package provides several mail related utility functions. Any function required must be explicitly listed on the use line to be exported into the calling package.

FUNCTIONS

MAILADDRESS(ADDRESS)

Return a guess at the current user's mail address. The user can force the return value by setting the MAILADDRESS environment variable. [2.10] You may set the ADDRESS via the parameter.

WARNING:
When not supplied via the environment variable, <mailaddress> looks at various configuration files and other environmental data. Although this seems to be smart behavior, this is not predictable enough (IMHO) to be used. Please set the MAILADDRESS explicitly, and do not trust on the "automatic detection", even when that produces a correct address (on the moment)

example:

# in your main script
$ENV{MAILADDRESS} = 'me@example.com';

# everywhere else
use Mail::Util 'mailaddress';
print mailaddress;

# since v2.10
mailaddress "me@example.com";

MAILDOMAIN()}

Attempt to determine the current user's mail domain string via the following methods

over 4
Look for the MAILDOMAIN environment variable, which can be set from outside the program. This is by far the best way to configure the domain.

Look for a sendmail.cf file and extract DH parameter

Look for a smtp config file and use the first host defined in hostname(s)

Try an SMTP connect (if Net::SMTP exists) first to mailhost then localhost

Use value from Net::Domain::domainname (if Net::Domain exists)

WARNING:
On modern machines, there is only one good way to provide information to this method: the first; always explicitly configure the MAILDOMAIN.

example:

# in your main script
ENV{MAILDOMAIN} = 'example.com';

# everywhere else
use Mail::Util 'maildomain';
print maildomain;

=item B<read_mbox>(FILE)

Read FILE, a binmail mailbox file, and return a list of references. Each reference is a reference to an array containg one message.

WARNING:
This method does not quote lines which accidentally also start with the message separator C<From>, so this implementation can be considered broken. See Mail::Box::Mbox

=head1 SEE ALSO

This module is part of the MailTools distribution, F<http://perl.overmeer.net/mailtools/>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.
Mail::Cap by Gisle Aas <aas@oslonett.no>
Mail::AddrList by Peter Orbaek <poe@cit.dk>
Mail::Mailer and Mail::Send by Tim Bunce <Tim.Bunce@ig.co.uk>
For other contributors see ChangeLog.

=head1 LICENSE

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2001-2007 Mark Overmeer <perl@overmeer.net>.

This program is free software; you can redistribute it and/or modify it
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See <http://www.perl.com/perl/misc/Artistic.html>

Found in path(s):
  */opt/cola/permits/1138401220_1614281932.61/0/lib/mailtools-perl-2-12-orig-1-tar-bz2/MailTools-
  2.12/lib/Mail/Util.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Mail::Field::Date - a date header field

=head1 INHERITANCE

Mail::Field::Date
  is a Mail::Field

=head1 SYNOPSIS

use HTTP::Date 'time2iso';
my $field = Mail::Field->new(Date => time2iso());

=head1 DESCRIPTION

Represents one "Date" header field.

=head1 METHODS

=head2 Constructors

=over 4
=item Mail::Field::Date-B<combine>(FIELDS)
See L<Mail::Field/Constructors>

=item Mail::Field::Date-B<extract>(TAG, HEAD [, INDEX ])

See L<Mail::Field/"Constructors">

=item Mail::Field::Date-E<gt>B<new>(TAG [, STRING | OPTIONS])

See L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

=over 4

=item $obj-E<gt>B<create>(OPTIONS)

See L<Mail::Field/"Fake" constructors">

=item $obj-E<gt>B<parse>()

See L<Mail::Field/"Fake" constructors">

=back

=head2 Accessors

=over 4

=item $obj-E<gt>B<set>(OPTIONS)

-Option --Default
  Time     undef
  TimeStr  undef

=over 2

=item Time => SECONDS

=item TimeStr => STRING

A string acceptable to Date::Parse.

=back

=item $obj-E<gt>B<stringify>()

See L<Mail::Field/"Accessors">

=item $obj-E<gt>B<tag>()
See \texttt{Mail::Field/\textasciitilde Accessors}\texttt{}.

\texttt{Mail::Field::Date}\texttt{(}\texttt{)}

\texttt{Mail::Field::AddrList}\texttt{ by Peter Orbaek }\texttt{E\textless poe@cit.dkE\textgreater }.

\texttt{Mail::Mailer and Mail::Send by Tim Bunce }\texttt{E\textless Tim.Bunce@ig.co.ukE\textgreater }.

For other contributors see ChangeLog.
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Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-2.12/lib/Mail/Field/Date.pod
No license file was found, but licenses were detected in source scan.

NAME

Mail::Header - manipulate MIME headers

SYNOPSIS

use Mail::Header;

my $head = Mail::Header->new;
my $head = Mail::Header->new( ">STDIN");
my $head = Mail::Header->new( [<>], Modify => 0);

DESCRIPTION

Read, write, create, and manipulate MIME headers, the leading part of each modern e-mail message, but also used in other protocols like HTTP. The fields are kept in Mail::Field objects.

Be aware that the header fields each have a name part, which shall be treated case-insensitive, and a content part, which may be folded over multiple lines.

Mail::Header does not always follow the RFCs strict enough, does not help you with character encodings. It does not use weak references where it could (because those did not exist when the module was written) which costs some performance and make the implementation a little more complicated. The Mail::Message::Head implementation is much newer and therefore better.

METHODS

Constructors

over 4
Create a duplicate of the current object.

ARG may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be initialized with headers either from the array of read from the file descriptor.

OPTIONS is a list of options given in the form of key-value pairs, just like a hash table. Valid options are:

- **FoldLength** => INTEGER
  The default length of line to be used when folding header lines. See L<fold_length()|Mail::Header/"Accessors">.

- **MailFrom** => 'IGNORE'|'COERCE'|'KEEP'|'ERROR'
  See method L<mail_from()|Mail::Header/"Accessors">.

- **Modify** => BOOLEAN
  If this value is true then the headers will be re-formatted, otherwise the format of the header lines will remain unchanged.

Be warned that the next constructors all require an already created header object, of which the original content will be destroyed.
=item $obj->B<empty>()

Empty an existing C<Mail::Header> object of all lines.

=item $obj->B<extract>(ARRAY)

Extract a header from the given array into an existing Mail::Header object. C<extract> B<will modify> this array.
Returns the object that the method was called on.

=item $obj->B<header>({ARRAY})

C<header> does multiple operations. First it will extract a header from the ARRAY, if given. It will then reformat the header (if reformatting is permitted), and finally return a reference to an array which contains the header in a printable form.

=item $obj->B<header_hashref>({HASH})

As L<header()|Mail::Header/"Fake" constructors">, but it will eventually set headers from a hash reference, and it will return the headers as a hash reference.

eexample:

$fields->{From} = 'Tobias Brox <tobix@cpan.org>';
$fields->{To} = ['you@somewhere', 'me@localhost'];
$head->header_hashref($fields);

=item $obj->B<read>(FILEHANDLE)

Read a header from the given file descriptor into an existing Mail::Header object.

=back

=head2 Accessors

=over 4

=item $obj->B<fold_length>({TAG}, [LENGTH])

Set the default fold length for all tags or just one. With no arguments the default fold length is returned. With two arguments it sets the fold length for the given tag and returns the previous value. If only C<LENGTH> is given it sets the default fold length for the current object.

In the two argument form C<fold_length> may be called as a static method,
setting default fold lengths for tags that will be used by Mail::Header objects. See the fold method for a description on how Mail::Header uses these values.

=item $obj->B<mail_from>('IGNORE'|'COERCE'|'KEEP'|'ERROR')

This specifies what to do when a From line is encountered. Valid values are IGNORE - ignore and discard the header, ERROR - invoke an error (call die), COERCE - rename them as Mail-From and KEEP - keep them.

=item $obj->B<modify>({VALUE})

If VALUE is false then Mail::Header will not do any automatic reformatting of the headers, other than to ensure that the line starts with the tags given.

=back

=head2 Processing

=over 4

=item $obj->B<add>(TAG, LINE [, INDEX])

Add a new line to the header. If TAG is undef the the tag will be extracted from the beginning of the given line. If INDEX is given, the new line will be inserted into the header at the given point, otherwise the new line will be appended to the end of the header.

=item $obj->B<as_string>()

Returns the header as a single string.

=item $obj->B<cleanup>()

Remove any header line that, other than the tag, only contains whitespace.

=item $obj->B<combine>(TAG [, WITH])

Combine all instances of TAG into one. The lines will be joined together WITH, or a single space if not given. The new item will be positioned in the header where the first instance was, all other instances of TAG will be removed.

=item $obj->B<count>(TAG)

Returns the number of times the given atg appears in the header.
=item $obj-E<gt>B<delete>(TAG [, INDEX ])

Delete a tag from the header. If an INDEX id is given, then the Nth instance of the tag will be removed. If no INDEX is given, then all instances of tag will be removed.

=item $obj-E<gt>B<fold>(LENGTH)

Fold the header. If LENGTH is not given, then C<Mail::Header> uses the following rules to determine what length to fold a line.

=item $obj-E<gt>B<get>(TAG [, INDEX])

Get the text from a line. If an INDEX is given, then the text of the Nth instance will be returned. If it is not given the return value depends on the context in which C<get> was called. In an array context a list of all the text from all the instances of the TAG will be returned. In a scalar context the text for the first instance will be returned.

The lines are unfolded, but still terminated with a new-line (see C<chomp>)

=item $obj-E<gt>B<print>(FILEHANDLE)

Print the header to the given file descriptor, or C<STDOUT> if no file descriptor is given.

=item $obj-E<gt>B<replace>(TAG, LINE [, INDEX ])

Replace a line in the header. If TAG is C<undef> the the tag will be extracted from the beginning of the given line. If INDEX is given the new line will replace the Nth instance of that tag, otherwise the first instance of the tag is replaced. If the tag does not appear in the header then a new line will be appended to the header.

=item $obj-E<gt>B<tags>()

Returns an array of all the tags that exist in the header. Each tag will only appear in the list once. The order of the tags is not specified.

=item $obj-E<gt>B<unfold>(TAG)

Unfold all instances of the given tag so that they do not spread across multiple lines. If C<TAG> is not given then all lines are unfolded.

The unfolding process is wrong but (for compatibility reasons) will not be repaired: only one blank at the start of the line should be removed, not all of them.
This module is part of the MailTools distribution, F<http://perl.overmeer.net/mailtools/>.

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.  
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Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-2.12/lib/Mail/Header.pod
No license file was found, but licenses were detected in source scan.

Mail::Field - Base class for manipulation of mail header fields

Mail::Field is extended by
  Mail::Field::AddrList
  Mail::Field::Date
  Mail::Field::Generic

use Mail::Field;

my $field = Mail::Field->new('Subject', 'some subject text');
my $field = Mail::Field->new(Subject => 'some subject text');
print $field->tag, ": ", $field->stringify, 

my $field = Mail::Field->subject('some subject text');

=head1 DESCRIPTION

C<Mail::Field> creates and manipulates fields in MIME headers, collected within a L<Mail::Header> object. Different field types have their own sub-class (extension), defining additional useful accessors to the field content.

People are invited to merge their implementation to special fields into MailTools, to maintain a consistent set of packages and documentation.

=head1 METHODS

=head2 Constructors

Mail::Field (and it's sub-classes) define several methods which return new objects. These can all be categorized as constructor.

=over 4

=item Mail::Field-E<gt>B<combine>(FIELDS)

Take a LIST of C<Mail::Field> objects (which should all be of the same sub-class) and create a new object in that same class.

=item Mail::Field-E<gt>B<extract>(TAG, HEAD [, INDEX ])

Takes as arguments the tag name, a C<Mail::Header> object and optionally an index.

If the index argument is given then C<extract> will retrieve the given tag from the C<Mail::Header> object and create a new C<Mail::Field> based object. I<undef> will be returned in the field does not exist.

If the index argument is not given the the result depends on the context in which C<extract> is called. If called in a scalar context the result will be as if C<extract> was called with an index value of zero. If called in an array context then all tags will be retrieved and a list of C<Mail::Field> objects will be returned.

=item Mail::Field-E<gt>B<new>(TAG [, STRING | OPTIONS])

Create an object in the class which defines the field specified by the TAG argument.
"Fake" constructors

This constructor is used internally with preprocessed field information. When called on an existing object, its original content will get replaced.

Parse a field line.

Accessors

Change the settings (the content, but then smart) of this field.

Returns the field as a string.

Return the tag (in the correct case) for this item. Well, actually any casing is OK, because the field tags are treated case-insensitive; however people have some preferences.

Without arguments, the field is returned as L<stringify()>Mail::Field/"Accessors"> does. Otherwise,
the STRING is parsed with `parse()` to replace the object's content.

It is more clear to call either `stringify()` or `parse()` directly, because this method does not add additional processing.

=head1 DETAILS

=head2 SUB-CLASS PACKAGE NAMES

All sub-classes should be called `Mail::Field::I<name>` where `I<name>` is derived from the tag using these rules.

=over 4

=item *

Consider a tag as being made up of elements separated by '.'

=item *

Convert all characters to lowercase except the first in each element, which should be uppercase.

=item *

`I<name>` is then created from these elements by using the first N characters from each element.

=item *

N is calculated by using the formula :

\[
\text{int}((7 + \text{#elements}) / \text{#elements})
\]

=item *

`I<name>` is then limited to a maximum of 8 characters, keeping the first 8 characters.

=back

For an example of this take a look at the definition of the `C<_header_pkg_name()>` subroutine in `C<Mail::Field>`

=head1 DIAGNOSTICS
=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution, F<http://perl.overmeer.net/mailtools/>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonn.et.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>. For other contributors see ChangeLog.

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* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-2.12/lib/Mail/Field.pod

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=head1 NAME

Mail::Send - Simple electronic mail interface

=head1 SYNOPSIS

require Mail::Send;
$msg = Mail::Send->new;
$msg = Mail::Send->new(Subject => 'example', To => 'timbo');

$msg->to('user@host');
$msg->to('user@host', 'user2@example.com');
$msg->subject('example subject');
$msg->cc('user@host');
$msg->bcc('someone@else');

$msg->set($header, @values);
$msg->add($header, @values);
$msg->delete($header);

# Launch mailer and set headers. The filehandle returned
# by open() is an instance of the Mail::Mailer class.
# Arguments to the open() method are passed to the Mail::Mailer
# constructor.

$fh = $msg->open;   # some default mailer
$fh = $msg->open('sendmail'); # explicit
print $fh "Body of message";
$fh->close          # complete the message and send it
    or die "couldn't send whole message: $!
";

=head1 DESCRIPTION

L<Mail::Send|Mail::Send> creates e-mail messages without using the L<Mail::Header|Mail::Header>
knowledge, which means that all escaping and folding must be done by
you!  Simplicity has its price.

When you have time, take a look at Mail::Transport

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Send-E<gt>B<new>(PAIRS)

A list of header fields (provided as key-value PAIRS) can be
used to initialize the object.

=back

=head2 Header fields

=over 4
Add values to the list of defined values for the FIELDNAME.

VALUES will replace the old values for the FIELDNAME. Returned is the LIST of values after modification.

The OPTIONS are used to initiate a mailer object via L<Mail::Mailer::new()>. Then L<Mail::Mailer::open()> is called with the knowledge collected in this Mail::Send object.

This module is part of the MailTools distribution, F<http://perl.overmeer.net/mailtools/>.

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
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No license file was found, but licenses were detected in source scan.

=head1 NAME

Mail::Mailer - Simple interface to electronic mailing mechanisms

=head1 INHERITANCE

Mail::Mailer
  is a IO::Handle

=head1 SYNOPSIS

use Mail::Mailer;
use Mail::Mailer qw(mail);    # specifies default mailer

$mailer = Mail::Mailer->new;
$mailer = Mail::Mailer->new($type, @args);

$mailer->open(%headers);
print $mailer $body;
$mailer->close
  or die "couldn't send whole message: $!
";

=head1 DESCRIPTION

Sends mail using any of the built-in methods. As TYPE argument to L<new()>|Mail::Mailer/"Constructors">, you can specify any of:

=over 4

=item C<sendmail>

Use the C<sendmail> program to deliver the mail.
=item C<smtp>  

Use the C<smtp> protocol via Net::SMTP to deliver the mail. The server to use can be specified in C<@args> with

$mailer = Mail::Mailer->new('smtp', Server => $server);

The smtp mailer does not handle C<Cc> and C<Bcc> lines, neither their C<Resent-*> fellows. The C<Debug> options enables debugging output from C<Net::SMTP>.

You may also use the C<< Auth => [ $user, $password ] >> option for SASL authentication. To make this work, you have to install the L<Authen::SASL> distribution yourself: it is not automatically installed.

=back

=item C<smtps>  

Use the smtp over ssl protocol via L<Net::SMTP::SSL> to deliver the mail. Usage is identical to C<smtp>. You have to install Authen::SASL as well.

$mailer = Mail::Mailer->new('smtps', Server => $server);

=item C<qmail>  

Use qmail's qmail-inject program to deliver the mail.

=item C<testfile>  

Used for debugging, this displays the data to the file named in C<$Mail::Mailer::testfile::config{outfile}> which defaults to a file named C<mailer.testfile>. No mail is ever sent.

=back

C<Mail::Mailer> will search for executables in the above order. The default mailer will be the first one found.

=head1 METHODS  

=head2 Constructors  

=over 4  

=item Mail::Mailer-E<gt>B<new>(TYPE, ARGS)  

The TYPE is one of the back-end sender implementations, as described in
the DESCRIPTION chapter of this manual page. The ARGs are passed to that back-end.

=item $obj-E<gt>B<open>(HASH)

The HASH consists of key and value pairs, the key being the name of the header field (eg, C<To>), and the value being the corresponding contents of the header field. The value can either be a scalar (eg, C<gnat@frii.com>) or a reference to an array of scalars (C<< eg, ['gnat@frii.com', 'Tim.Bunce@ig.co.uk'] >>).

=back

=head1 DETAILS

=head2 ENVIRONMENT VARIABLES

=over 4

=item PERL_MAILERS

Augments/override the build in choice for binary used to send out our mail messages.

Format:

"type1:mailbinary1;mailbinary2;...:type2:mailbinaryX;...;"

Example: assume you want you use private sendmail binary instead of mailx, one could set C<PERL_MAILERS> to:

"mail:/does/not/exists:sendmail:$HOME/test/bin/sendmail"

On systems which may include C<:> in file names, use C<|> as separator between type-groups.

"mail:c:/does/not/exists|sendmail:$HOME/test/bin/sendmail"

=back

=head2 BUGS

Mailer does not help with folding, and does not protect against various web-script hacker attacks, for instance where a new-line is inserted in the content of the field.

=head1 SEE ALSO
This module is part of the MailTools distribution, F<http://perl.overmeer.net/mailtools/>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
For other contributors see ChangeLog.

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No license file was found, but licenses were detected in source scan.

=head1 NAME

Mail::Address - Parse mail addresses

=head1 SYNOPSIS

use Mail::Address;
my @addrs = Mail::Address->parse($line);

foreach $addr (@addrs) {
    print $addr->format,"\n";
}

=head1 DESCRIPTION

C<Mail::Address> extracts and manipulates email addresses from a message header. It cannot be used to extract addresses from some random text.
You can use this module to create RFC822 compliant fields.

Although C<Mail::Address> is a very popular subject for books, and is used in many applications, it does a very poor job on the more complex
message fields. It does only handle simple address formats (which covers about 95% of what can be found). Problems are with

- no support for address groups, even not with the semi-colon as separator between addresses;

- limited support for escapes in phrases and comments. There are cases where it can get wrong; and

- you have to take care of most escaping when you create an address yourself: 
  C-Mail::Address does not do that for you.

Often requests are made to the maintainers of this code improve this situation, but this is not a good idea, where it will break zillions of existing applications. If you wish for a fully RFC2822 compliant implementation you may take a look at L-Mail::Message::Field::Full, part of MailBox.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Address-E<gt>B<new>(PHRASE, ADDRESS, [ COMMENT ])

Create a new C-Mail::Address object which represents an address with the elements given. In a message these 3 elements would be seen like:

PHRASE <ADDRESS> (COMMENT)
ADDRESS (COMMENT)

example:

Mail::Address->new("Perl5 Porters", "perl5-porters@africa.nicoh.com");

=item $obj-E<gt>B<parse>(LINE)
Parse the given line a return a list of extracted \texttt{Mail::Address} objects. The line would normally be one taken from a \texttt{To}, \texttt{Cc} or \texttt{Bcc} line in a message.

example:

\begin{verbatim}
my @addr = Mail::Address->parse($line);
\end{verbatim}

=head2 Accessors

=item \$obj->\texttt{address}()

Return the address part of the object.

=item \$obj->\texttt{comment}()

Return the comment part of the object.

=item \$obj->\texttt{format}([\texttt{ADDRESSes}])

Return a string representing the address in a suitable form to be placed on a \texttt{To}, \texttt{Cc}, or \texttt{Bcc} line of a message. This method is called on the first \texttt{ADDRESS} to be used; other specified \texttt{ADDRESSes} will be appended, separated with commas.

=item \$obj->\texttt{phrase}()

Return the phrase part of the object.

=back

=head2 Smart accessors

=item \$obj->\texttt{host}()

Return the address excluding the user id and \texttt{@}.

=item \$obj->\texttt{name}()

Using the information contained within the object attempt to identify what the person or groups name is.

\texttt{Note:} This function tries to be smart with the \texttt{phrase} of the
email address, which is probably a very bad idea. Consider to use 
L<phrase()|Mail::Address/"Accessors"> itself.

=item $obj-B<user>()

Return the address excluding the '@' and the mail domain

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<http://perl.overmeer.net/mailtools/>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark
Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
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Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-
  2.12/lib/Mail/Address.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Mail::Cap - Parse mailcap files

=head1 SYNOPSIS

my $mc = new Mail::Cap;
$desc = $mc->description(‘image/gif’);

print "GIF desc: $desc\n";
Parse mailcap files as specified in "RFC 1524 -- A User Agent Configuration Mechanism For Multimedia Mail Format Information". In the description below $type refers to the MIME type as specified in the Content-Type header of mail or HTTP messages. Examples of types are:

image/gif
text/html
text/plain; charset=iso-8859-1

You could also take a look at the File::MimeInfo distribution, which are accessing tables which are used by many applications on a system, and therefore have succeeded the mail-cap specifications on modern (UNIX) systems.

Create and initialize a new Mail::Cap object. If you give it an argument it will try to parse the specified file. Without any arguments it will search for the mailcap file using the standard mailcap path, or the MAILCAPS environment variable if it is defined.

- Option --Default
  filename undef
  take 'FIRST'

Add the specified file to the list to standard locations. This file is tried first.

Include all mailcap files you can find. By default, only the first file is parsed, however the RFC tells us to include ALL. To maintain backwards compatibility, the default only takes the FIRST.
example:

$mcap = new Mail::Cap;
$mcap = new Mail::Cap "/mydir/mailcap";
$mcap = new Mail::Cap filename => "/mydir/mailcap";
$mcap = new Mail::Cap take => 'ALL';
$mcap = Mail::Cap->new(take => 'ALL');

=head2 Run commands

These methods invoke a suitable program presenting or manipulating the media object in the specified file. They all return C<1> if a command was found, and C<0> otherwise. You might test C<$?> for the outcome of the command.

=over 4

=item $obj->{'B<compose>'}(TYPE, FILE)

=item $obj->{'B<edit>'}(TYPE, FILE)

=item $obj->{'B<print>'}(TYPE, FILE)

=item $obj->{'B&view>'}(TYPE, FILE)

=back

=head2 Command creator

These methods return a string that is suitable for feeding to system() in order to invoke a suitable program presenting or manipulating the media object in the specified file. It will return C<undef> if no suitable specification exists.

=over 4

=item $obj->{'B<composeCmd>'}(TYPE, FILE)

=item $obj->{'B<editCmd>'}(TYPE, FILE)

=item $obj->{'B<printCmd>'}(TYPE, FILE)

=item $obj->{'B&viewCmd>'}(TYPE, FILE)
Look-up definitions

Methods return the corresponding mailcap field for the type.

=item $obj->B<description>(TYPE)
=item $obj->B(field)(TYPE, FIELD)

Returns the specified field for the type. Returns undef if no specification exists.

=item $obj->B<nametemplate>(TYPE)
=item $obj->B<textualnewlines>(TYPE)
=item $obj->B<x11_bitmap>(TYPE)

SEE ALSO

This module is part of the MailTools distribution, F<http://perl.overmeer.net/mailtools/>.

AUTHORS

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Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
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See F<http://www.perl.com/perl/misc/Artistic.html>
=head1 NAME

Mail::Filter - Filter mail through multiple subroutines

=head1 SYNOPSIS

use Mail::Filter;

my $filter = Mail::Filter->new( \&filter1, \&filter2 );

my $mail = Mail::Internet->new( [<>] );
my $mail = $filter->filter($mail);

my $folder = Mail::Folder->new( .... );
my $filter->filter($folder);

=head1 DESCRIPTION

C<Mail::Filter> provides an interface to filtering Email through multiple subroutines.

C<Mail::Filter> filters mail by calling each filter subroutine in turn. Each filter subroutine is called with two arguments, the first is the filter object and the second is the mail or folder object being filtered.

The result from each filter sub is passed to the next filter as the mail object. If a filter subroutine returns undef, then C<Mail::Filter> will abort and return immediately.

The function returns the result from the last subroutine to operate on the mail object.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Filter-E<gt>B<new>({FILTER [, ... ]})

Create a new C<Mail::Filter> object with the given filter subroutines. Each filter may be either a code reference or the name of a method to call on the C<Mail::Filter> object.
Accessors

Add the given filters to the end of the filter list.

Processing

If the first argument is a C-Mail::Internet- object, then this object will be passed through the filter list. If the first argument is a C-Mail::Folder- object, then each message in turn will be passed through the filter list.

While the C-filter- method is called with a C-Mail::Folder- object, these filter subroutines can call this method to obtain the folder object that is being processed.

If the C-filter- method is called with a C-Mail::Folder- object, then the filter subroutines may call this method to obtain the message number of the message that is being processed.

SEE ALSO

This module is part of the MailTools distribution, F-http://perl.overmeer.net/mailtools//.

AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E-mail:aas@oslonett.no.
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Found in path(s):
* /opt/cola/permits/1138401220_1614281932.61/0/libmailtools-perl-2-12-orig-1-tar-bz2/MailTools-
2.12/lib/Mail/Filter.pod

1.4249 libpcap 1.4.0 4.20130826git2dbcaa1.el6
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1.4251 python-prettytable 0.7.2-11.el6

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